

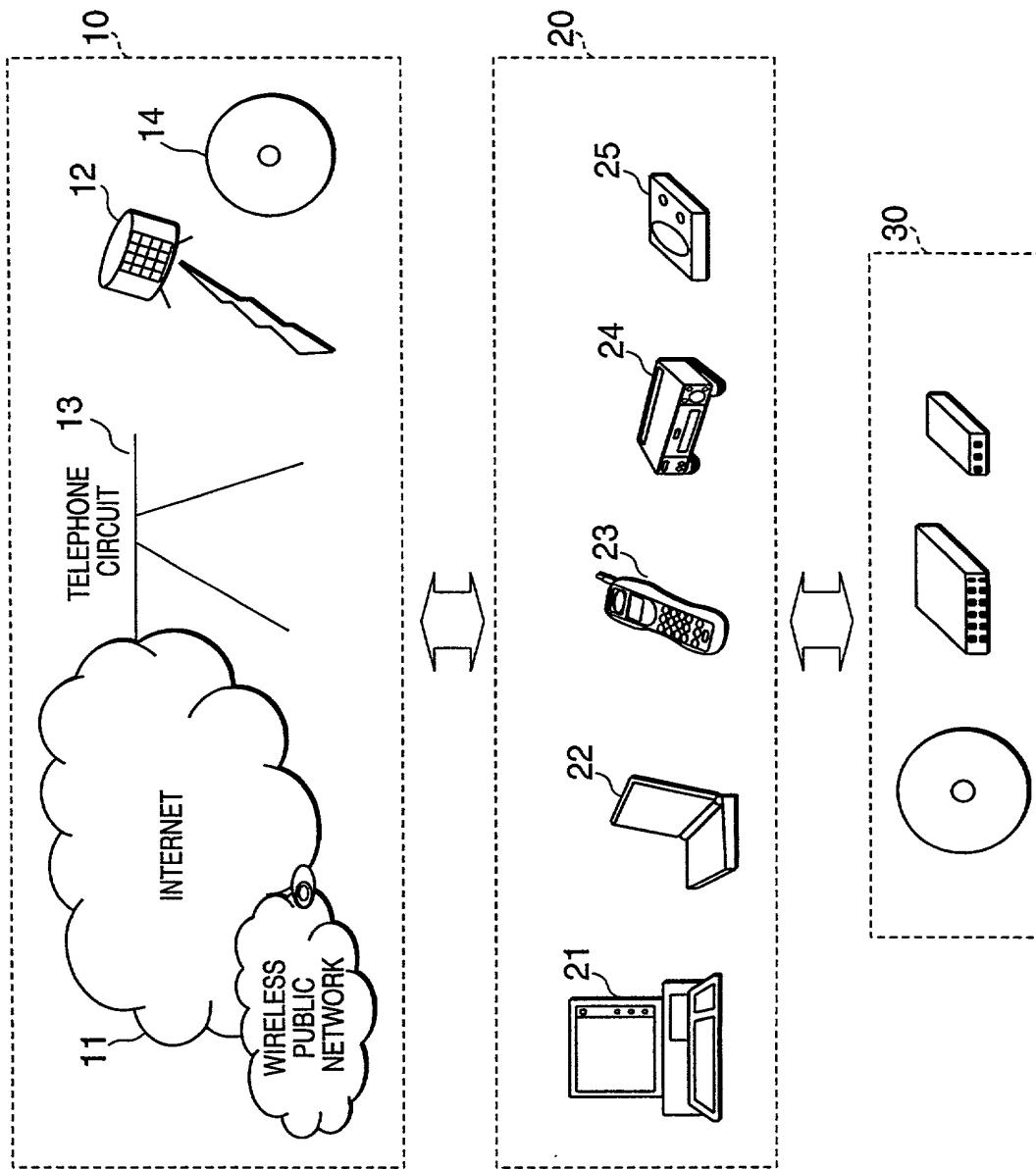
FIG. 1

FIG. 2

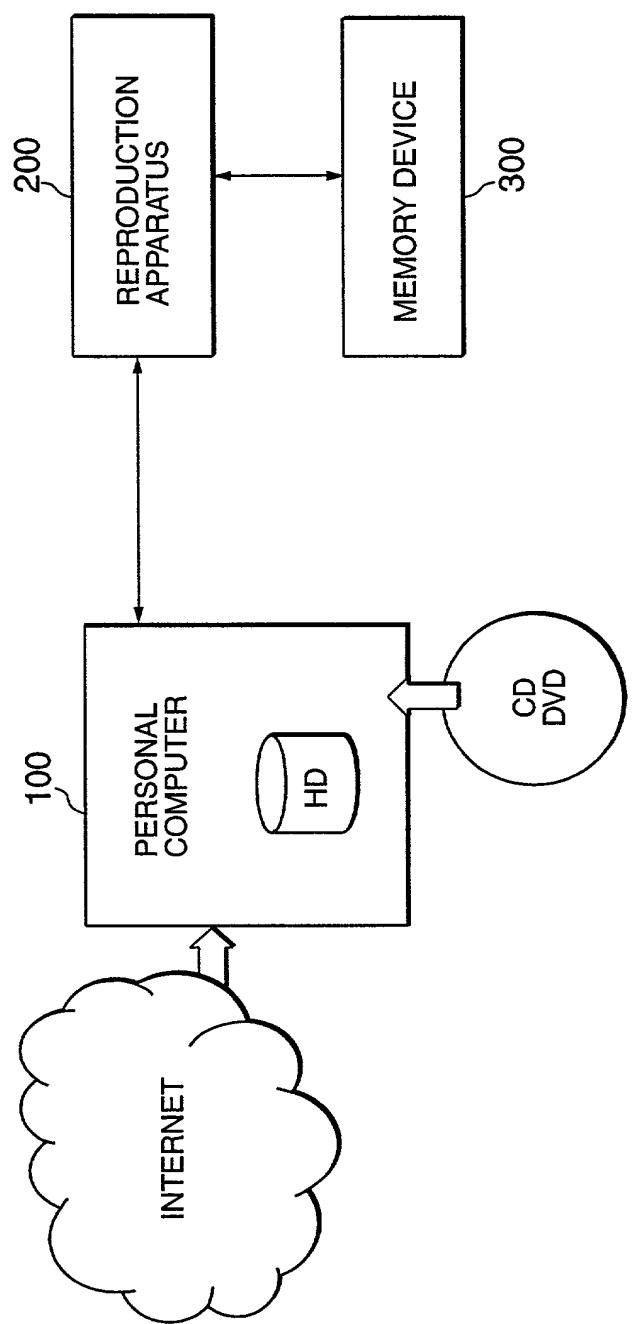


FIG. 3

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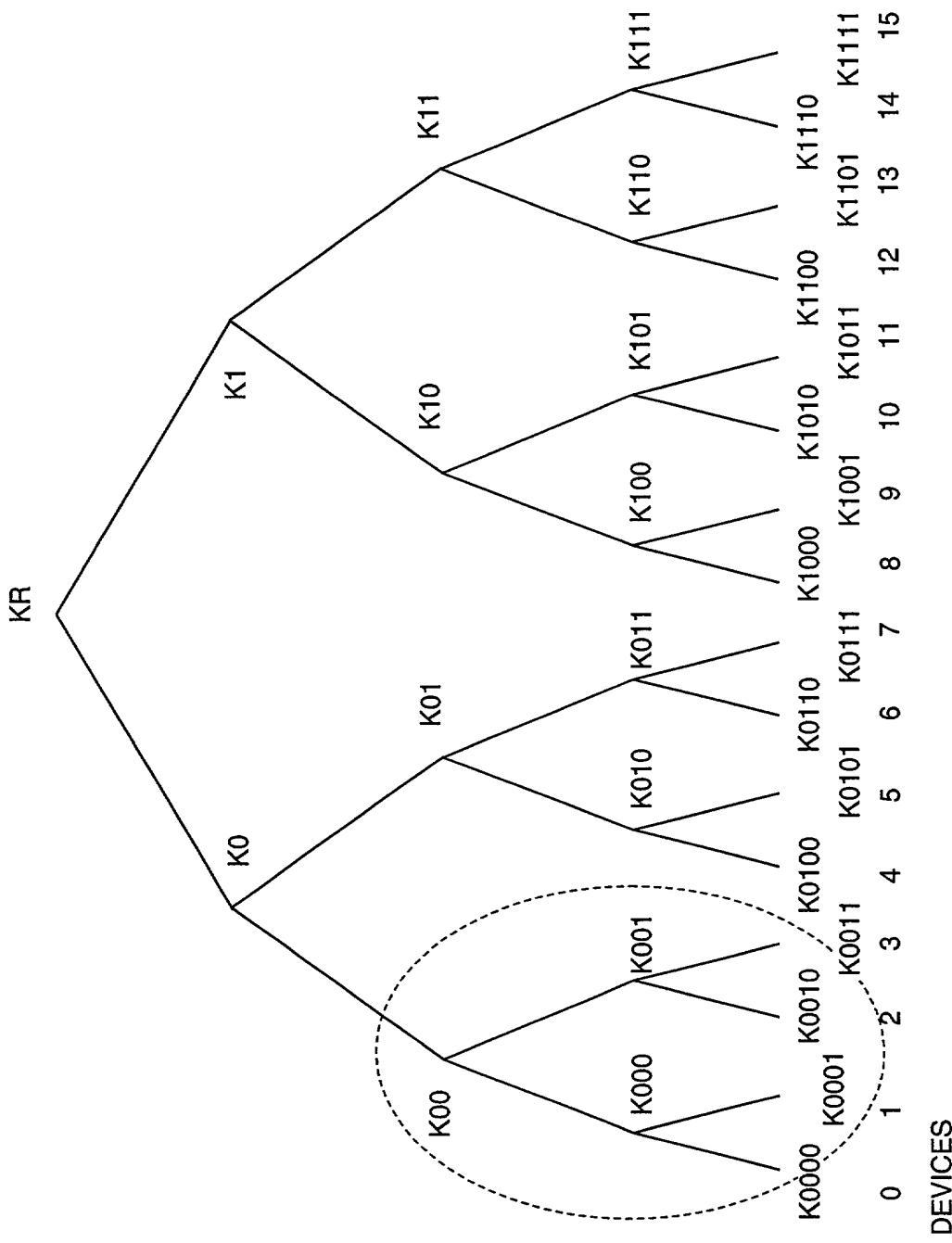


FIG. 4

EKB (ENABLING KEY BLOCK) EXAMPLE 1
DELIVERS NODE KEYS OF VERSION (t) TO DEVICES 0, 1, AND 2

(A)

VERSION : t	
INDEX	ENCIPHERING KEY
0	Enc(K(t)0, K(t)R)
00	Enc(K(t)00, K(t)0)
000	Enc(K000, K(t)00)
001	Enc(K(t)001, K(t)00)
0010	Enc(K0010, K(t)001)

EKB (ENABLING KEY BLOCK) EXAMPLE 2
DELIVER NODE KEY OF VERSION (t) TO DEVICES 0, 1, AND 2

(B)

VERSION : t	
INDEX	ENCIPHERING KEY
000	Enc(K000, K(t)00)
001	Enc(K(t)001, K(t)00)
0010	Enc(K0010, K(t)001)

FIG. 5

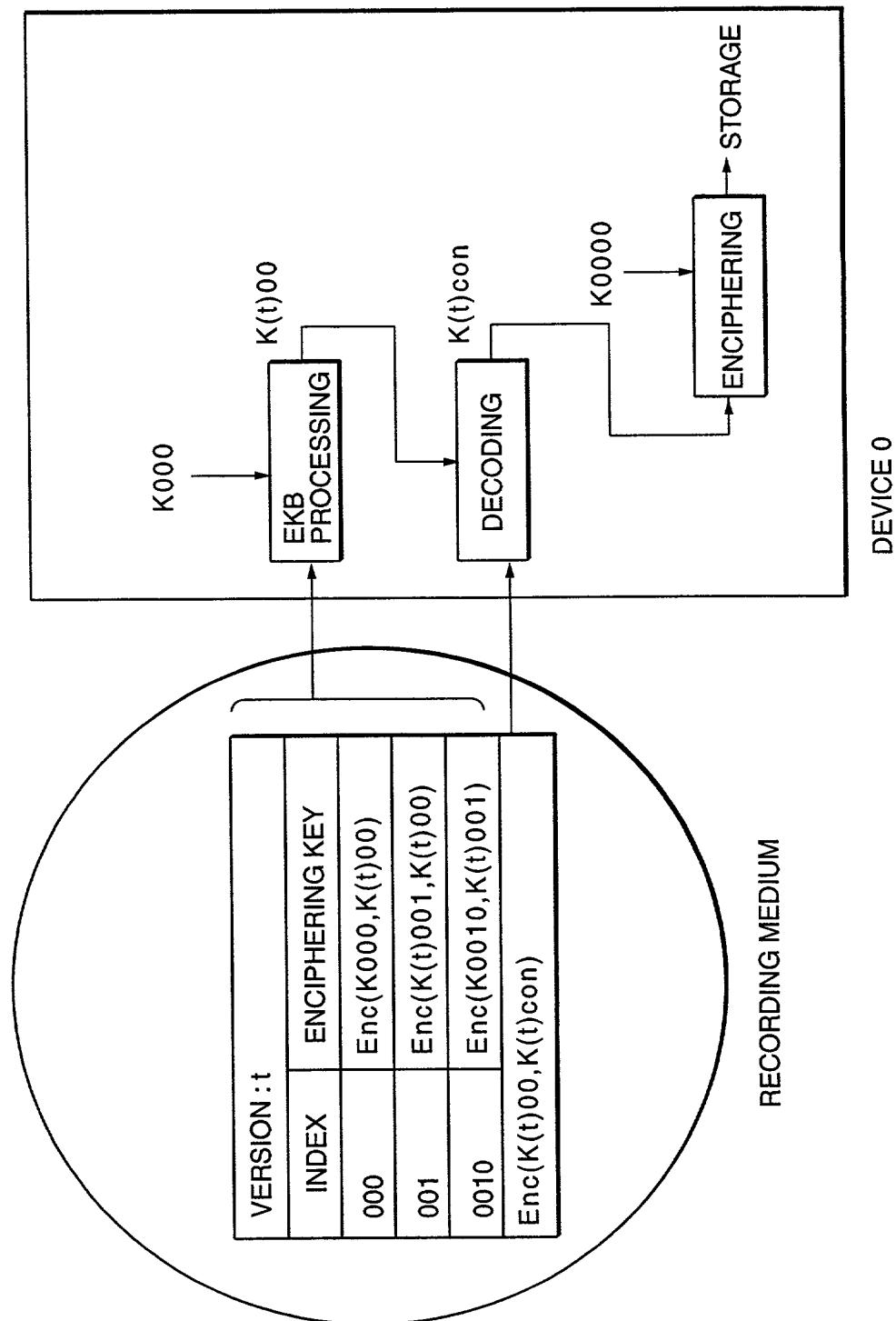


FIG. 6

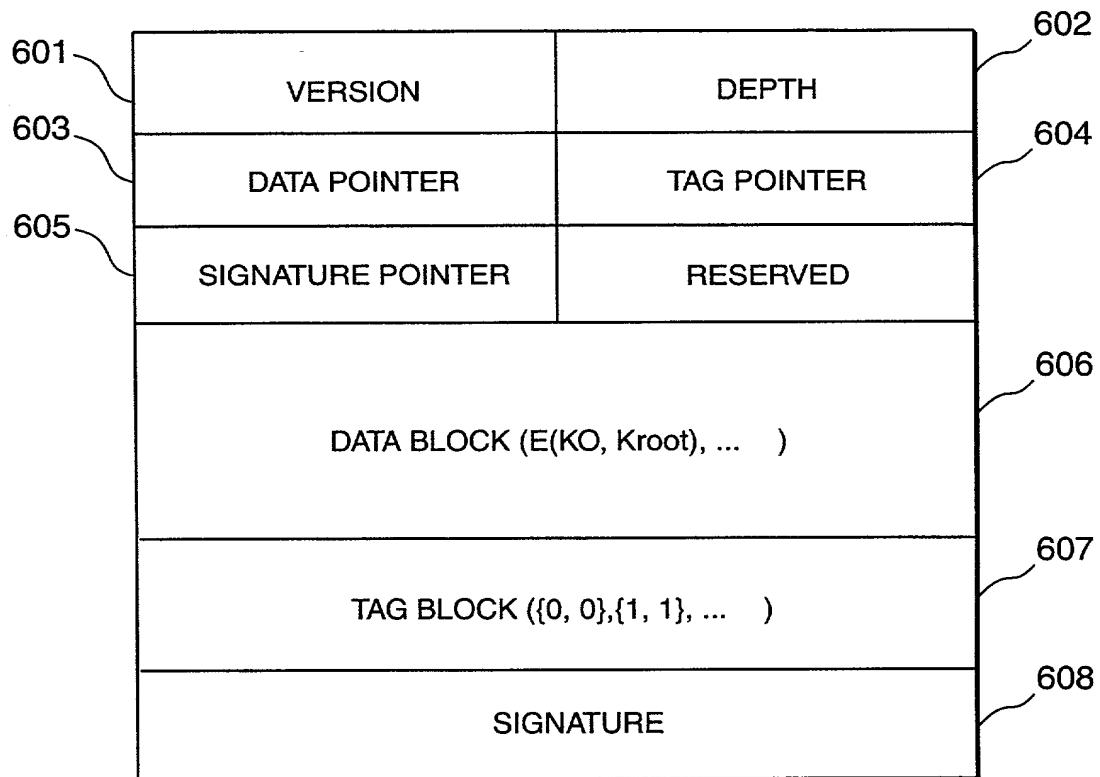


FIG. 7

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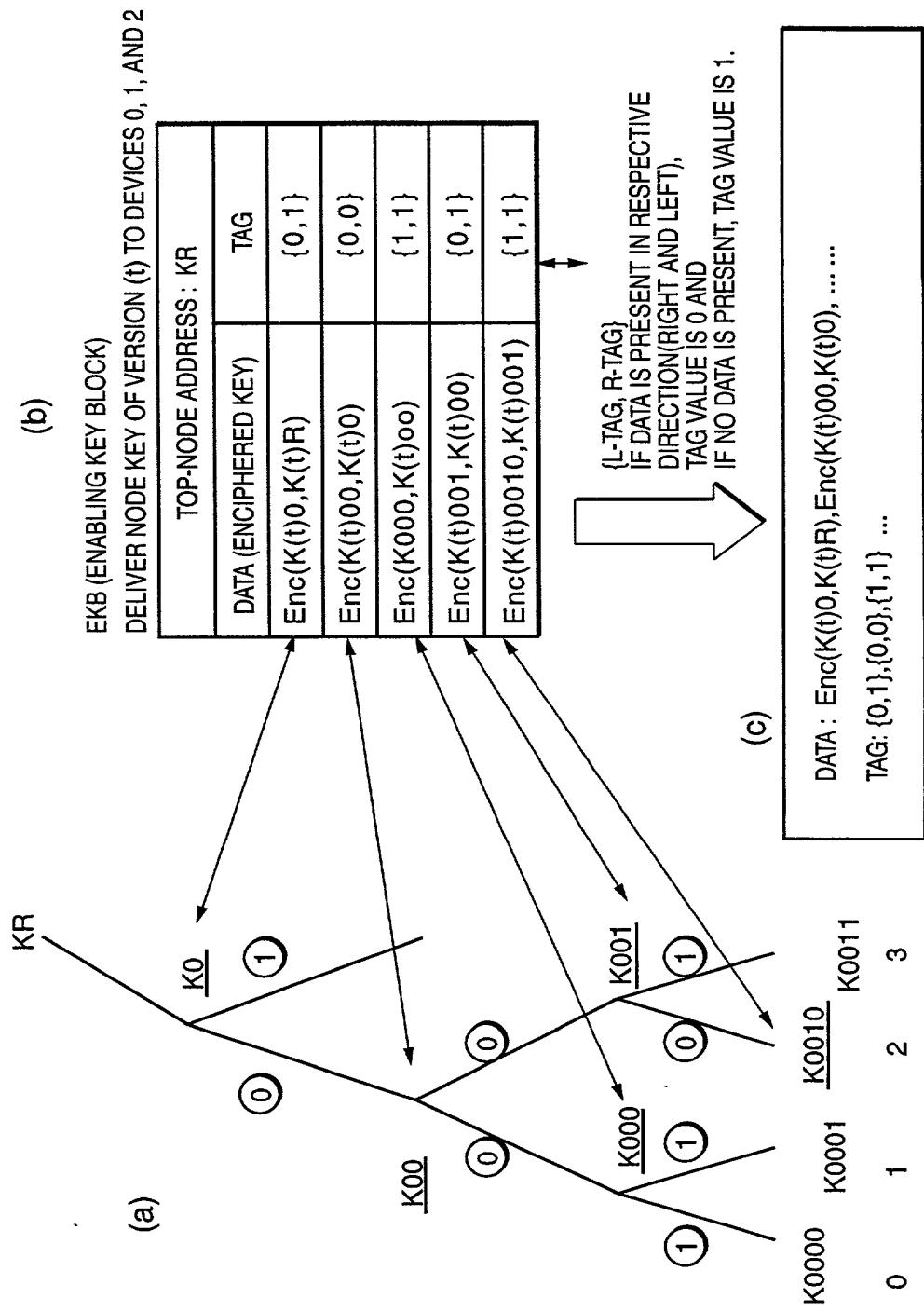
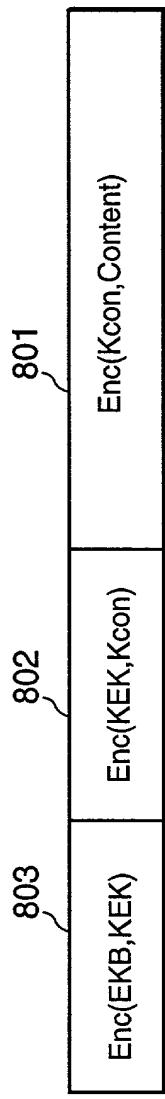


FIG. 8

(a)



(b)

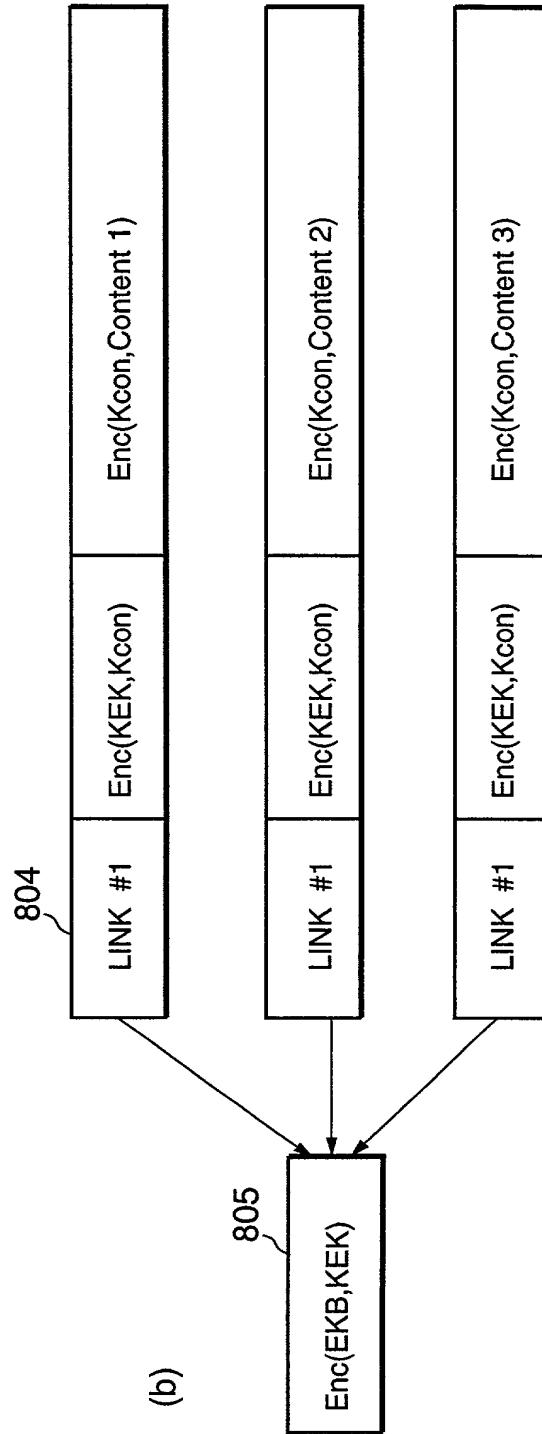


FIG. 9

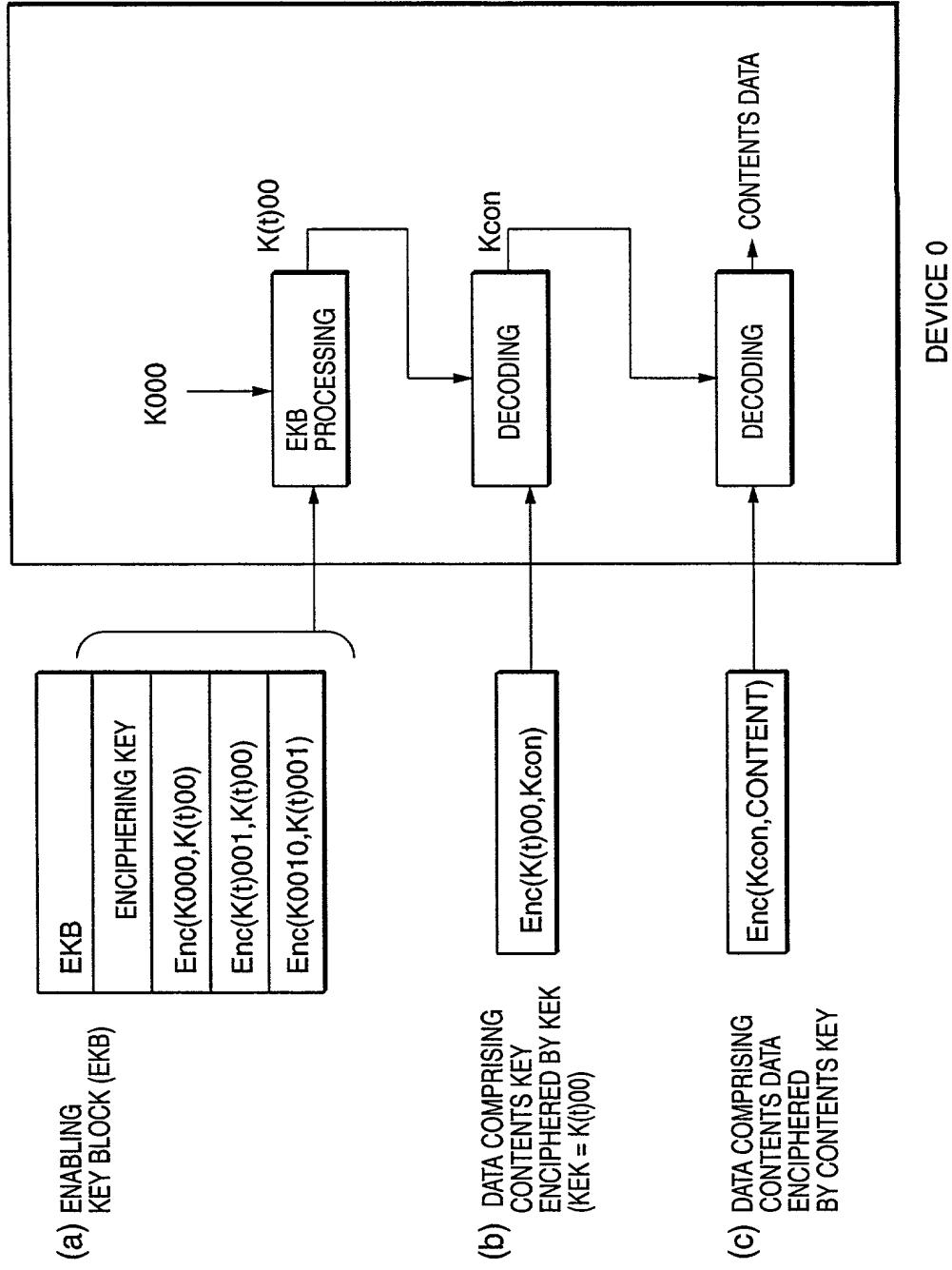


FIG. 10

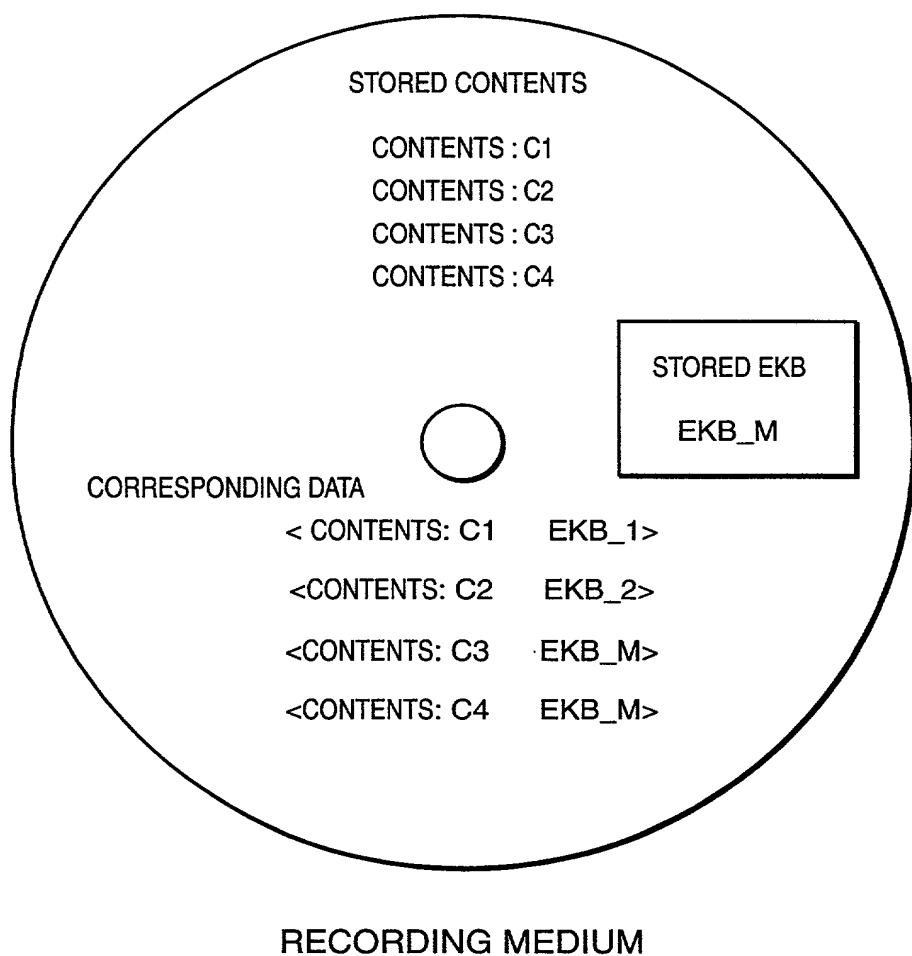


FIG. 11

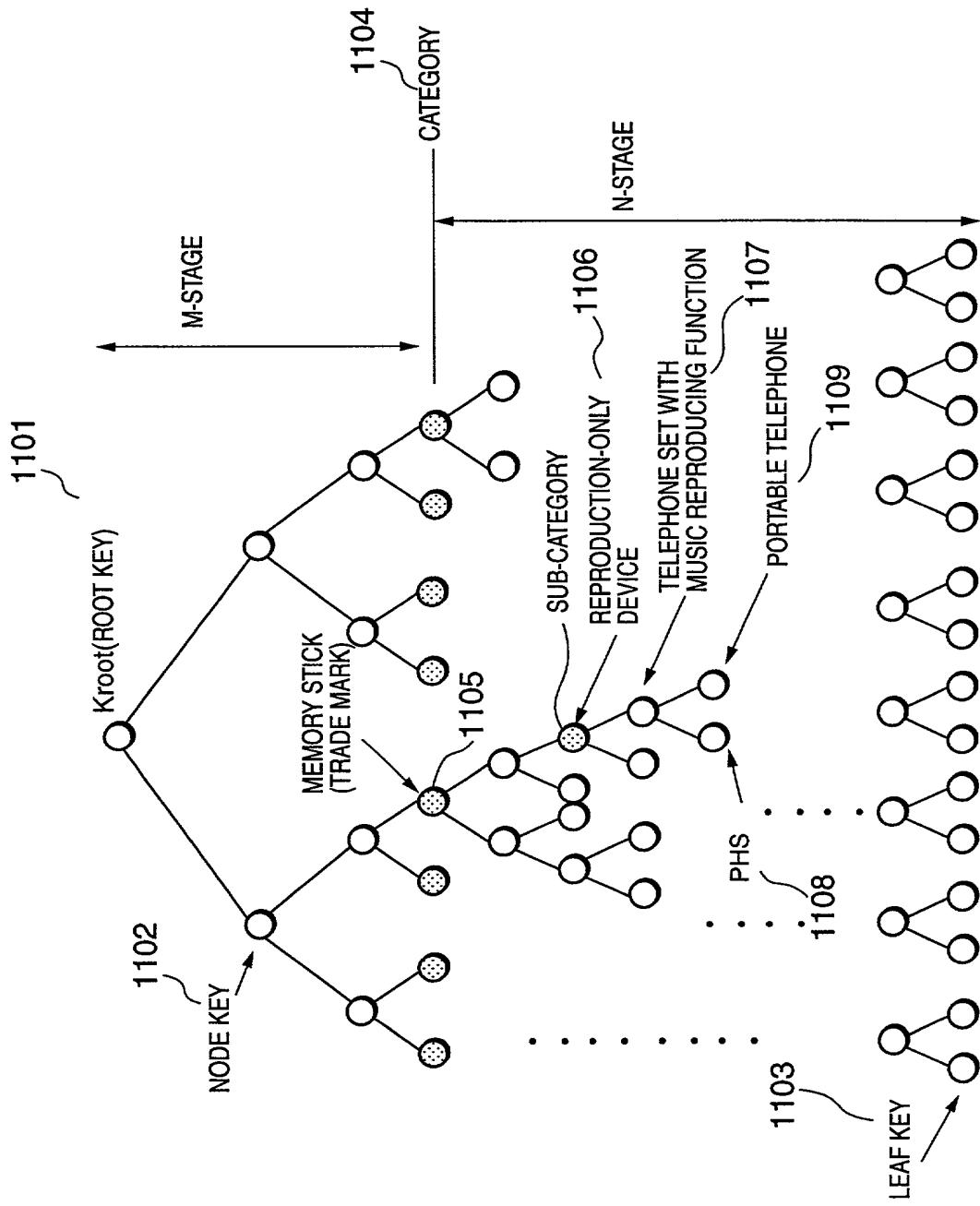
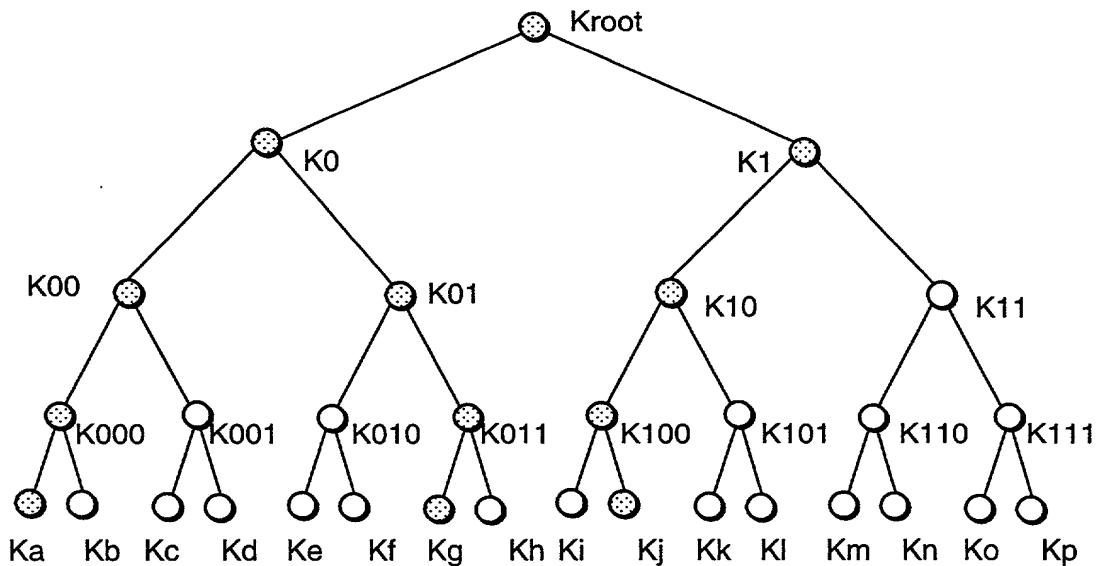


FIG. 12

(a)



(b)

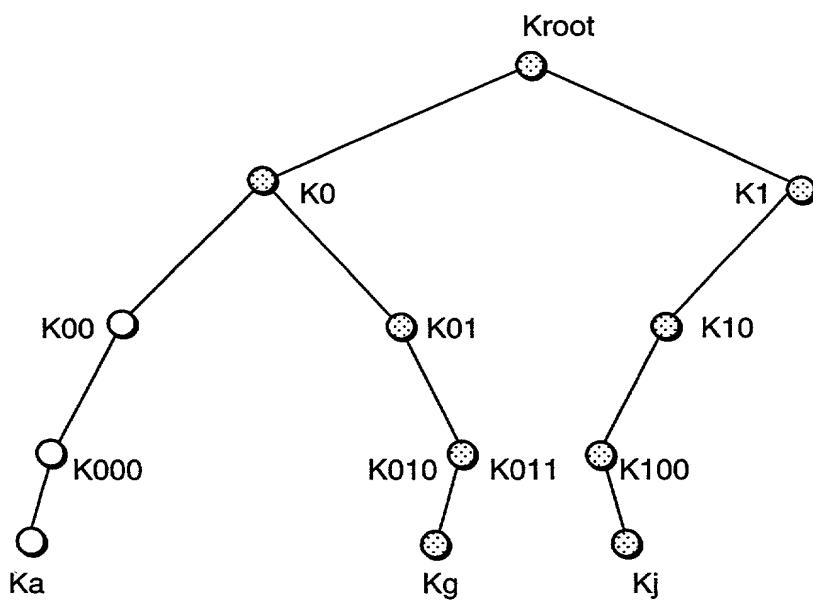


FIG. 13

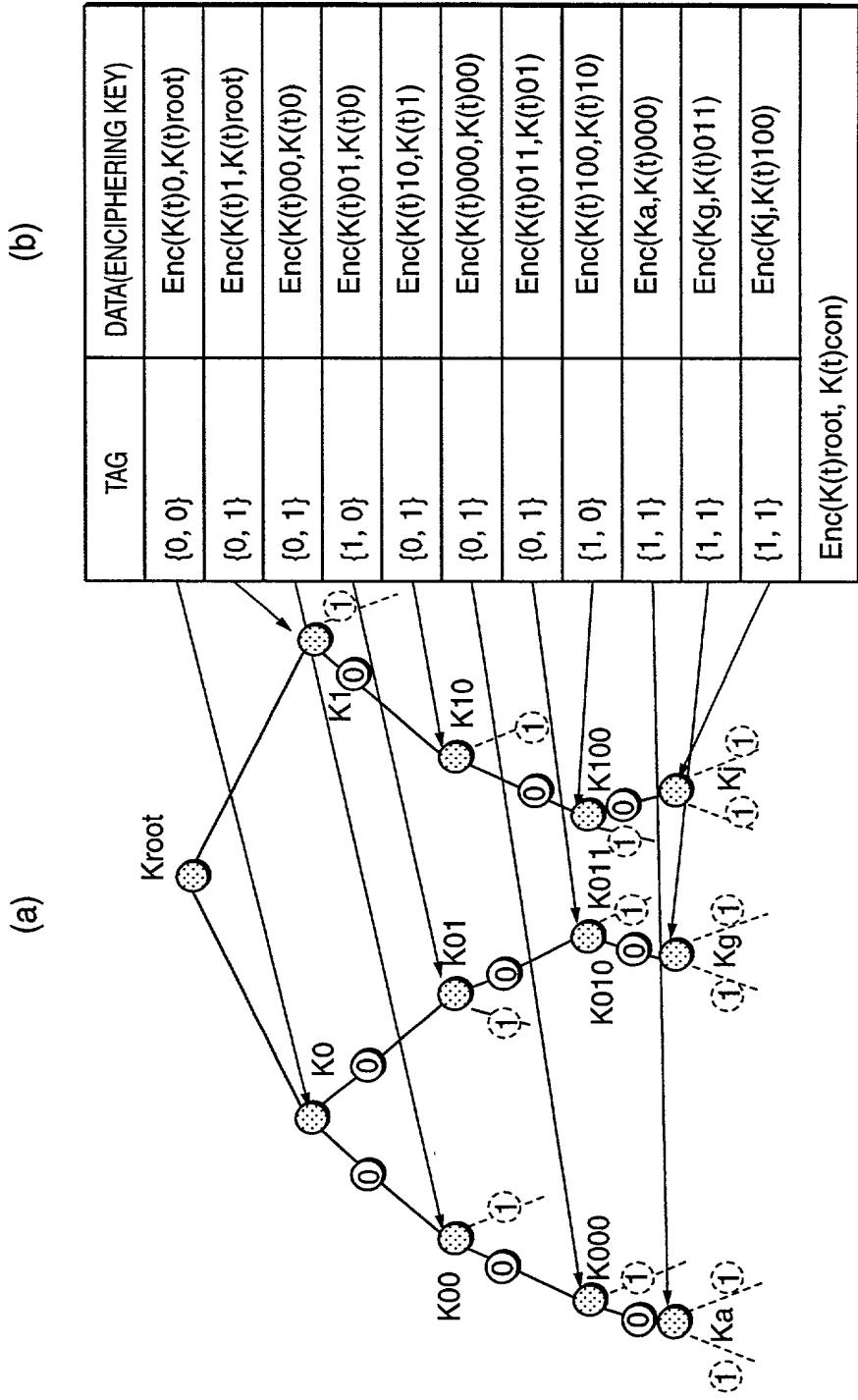


FIG. 14

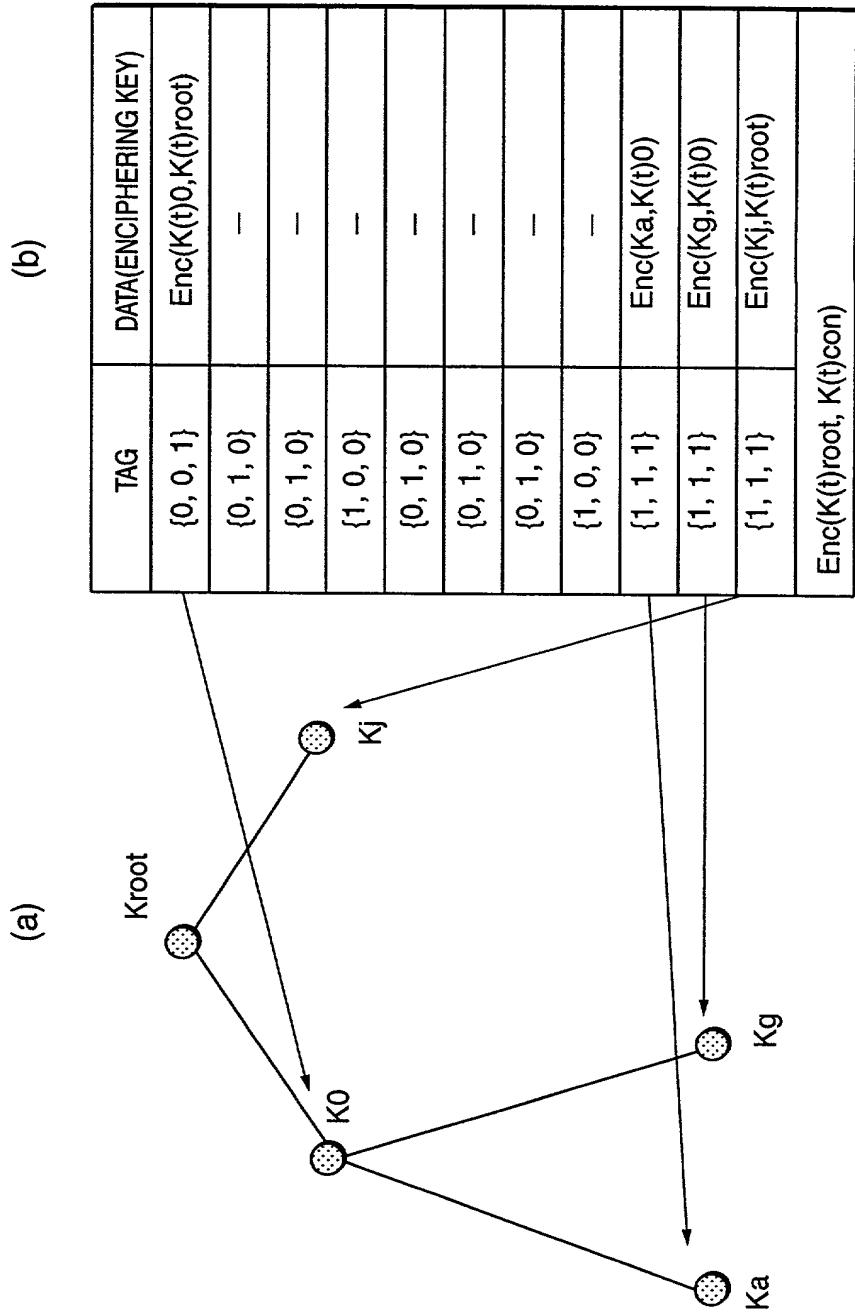


FIG. 15

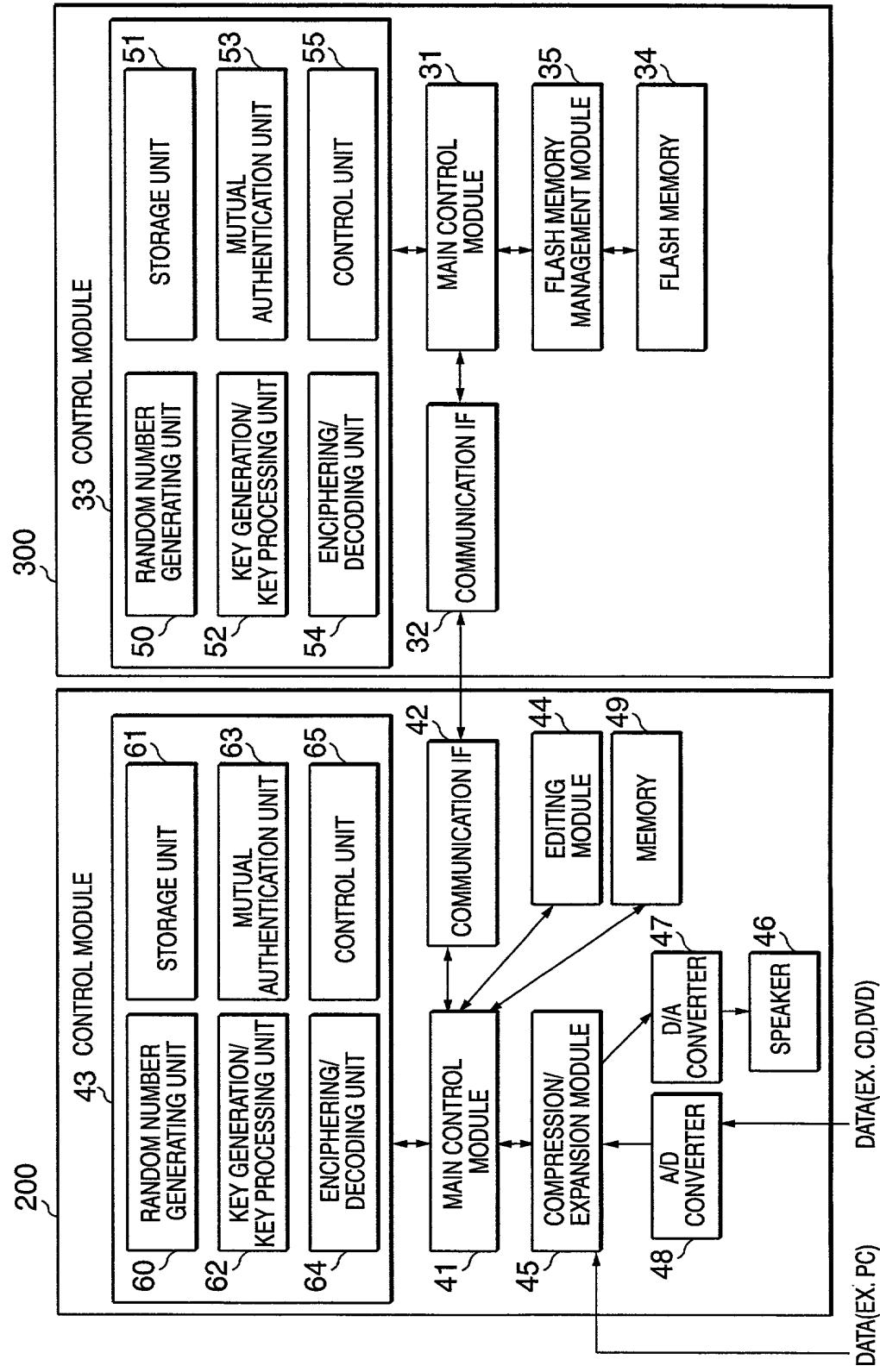


FIG. 16

DATA STORED IN A STORAGE UNIT OF A MEMORY DEVICE

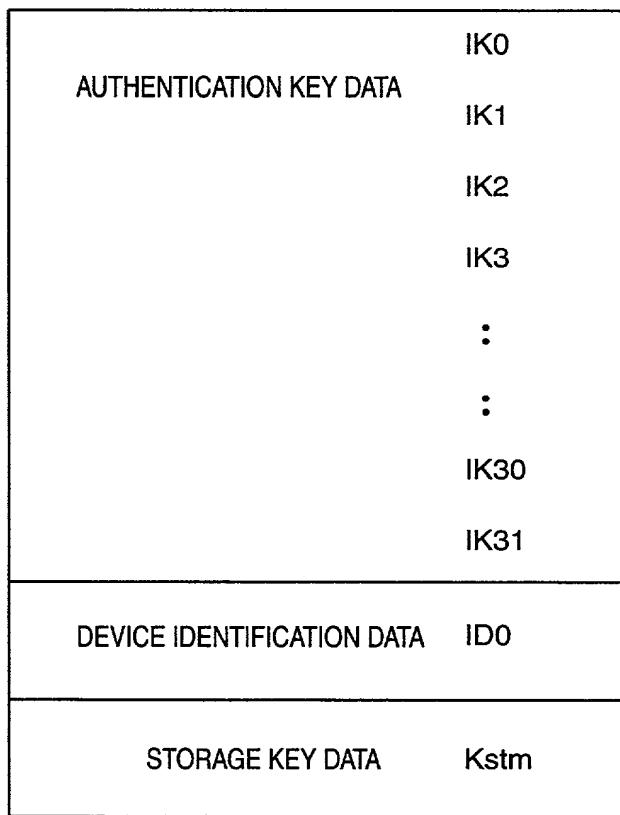


FIG. 17

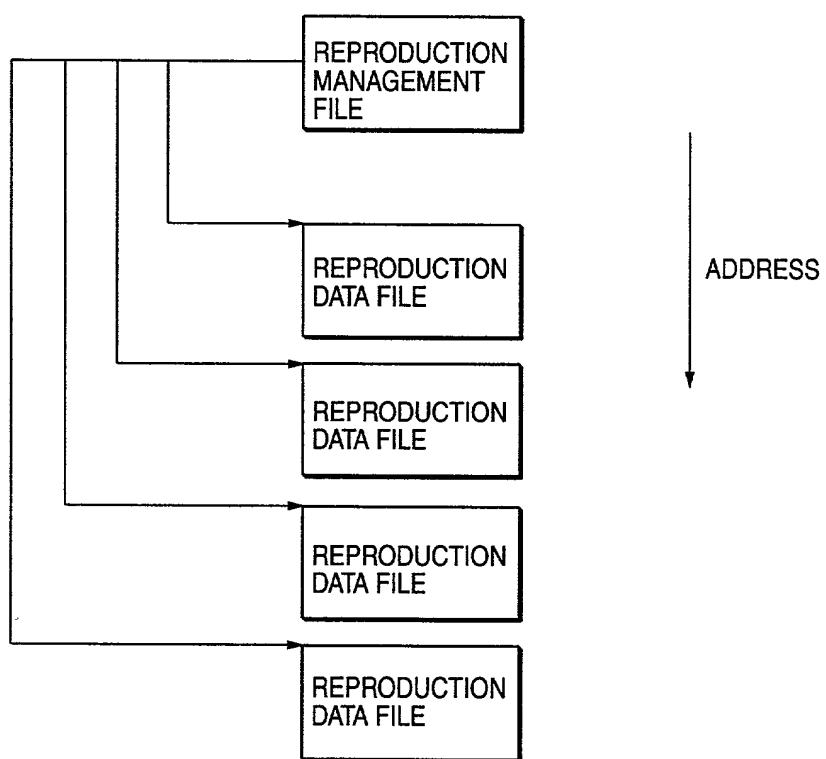


FIG. 18

REPRODUCTION MANAGEMENT FILE

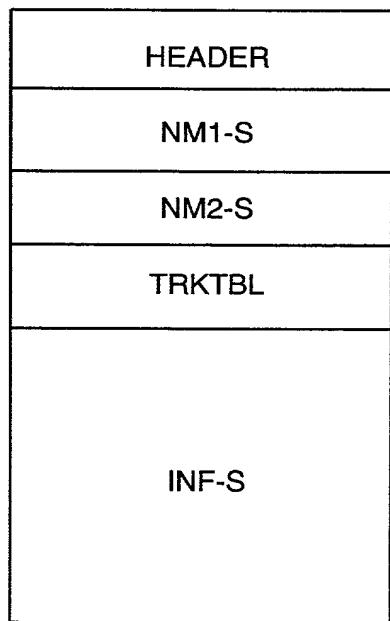


FIG. 19

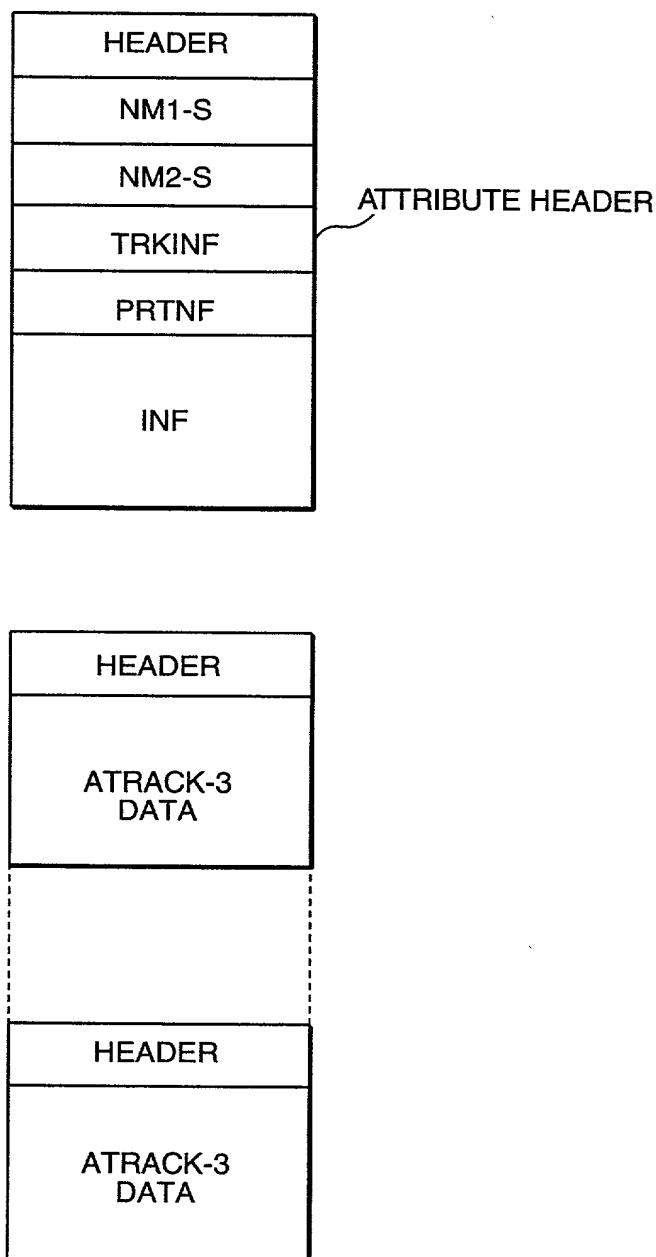


FIG. 20

REPRODUCTION MANAGEMENT FILE

B

0x0020	NM1-S(256)							
0x0120	NM2-S(512)							
0x0310								
0x0320	RESERVED(4)		EKB VERSION			E(Kstm,Kcon)		
0x0330	E(KEKn,Kcon)				c_MAC[0]			
0x0340	RESERVED(8)				RESERVED(3)		MGR	S-YMDhms
0x0350	TRK-001	TRK-002	TRK-003	TRK-004	TRK-005	TRK-006	TRK-007	TRK-008
0x0360	TRK-009	TRK-010	TRK-011	TRK-012	TRK-013	TRK-014	TRK-015	TRK-016
0x0660	TRK-393	TRK-394	TRK-395	TRK-396	TRK-397	TRK-398	TRK-399	TRK-400
0x0670	INF-S(14720)							
0x3FFF	BLKID-TLO	RESERVED	MCODE	REVISION			RESERVED	

C

FIG. 21

ATTRACK-3 DATA FILE

FIG. 22

FIG. 23

0x0320	RESERVED(3)	EKI	EKB VERSION	E(Kstm, Kcon)				
0x0330	E(KEN, Kcon)				C_MAC[n]			
0x0340	RESERVED(8)				INF_seq#	A	LT	FNo
0x0350	MG(D)SERIAL-nnn(UPPER)				MG(D)SERIAL-nnn(LOWER)			
0x0360	CONNUM	YMDhms-S	YMDhms-E	XCC	CT	CC	CN	

FIG. 24

Bit7 : ATRAC3 Mode 0 : Dual 1 : Joint

Bits 6, 5, 4: N OF 3-Bit CORRESPONDS TO MODE VALUE

N	MODE	TIME	TRANSFER RATE	SU (SOUND UNIT)	Byte
7	HQ	47min	176kbps	31SU	512
6		58min	146kbps	38SU	424
5	EX	64min	132kbps	42SU	384
4	SP	81min	105kbps	53SU	304
3		90min	94kbps	59SU	272
2	LP	128min	66kbps	84SU	192
1	MONO	181min	47kbps	119SU	136
0	MONO	258min	33kbps	169SU	96

Bit3 : RESERVED

Bit2 : DATA DISTINCTION 0 : AUDIO 1 : OTHERS

Bit1 : REPRODUCED SKIP 0 : NORMAL REPRODUCTION 1 : SKIP

Bit0 : EMPHASIS 0 : OFF 1 : ON(50/15 μ SECCOND)

FIG. 25

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Bit7 : COPY APPROVAL	0 : COPY INHIBITED	1 : COPY APPROVED
Bit6 : GENERATION (VERSION)	0 : ORIGINAL	1 : BEYOND THE FIRST GENERATION
HCMS	Bit5-4 : CONTROL IN RELATION TO HIGH-SPEED DIGITAL COPYING OPERATION	
	00 : COPY INHIBITED	01 : COPY FOR THE FIRST GENERATION
		10 : COPY APPROVED
	CHILD WHO IMPLEMENTED COPYING OF THE FIRST GENERATION IS	
	INHIBITED FROM EXECUTING FURTHER COPYING OPERASTION	
	Bit3-2 : MAGIC GATE AUTHENTICATION LEVEL	
	00: LEVEL10(Non-MG)	01 : LEVEL1
	02: LEVEL12	11 : RESERVED
	02: LEVEL10	
	THOSE LEVELS OTHER THAN 10 CAN NOT BE DIVIDED NOR COMBINED	
	Bit1, 0 : RESERVED	

FIG. 26

0x0370	PRTSIZE	PRTKEY		RESERVED (8)
0x0380	CONNUMO	PRTSIZE(0x0388)		PRTKEY
0x0390	RESERVED (8)	CONNUMO		

FIG. 27

0x4000	BLKID-A3D	RESERVED	MCODE	CONNUMO	BLOCK SERIAL
0x4010	BLOCKSEED				INITIALIZATION VECTOR
0x4020	SU-000(NByte=384Byte)				

FIG. 28

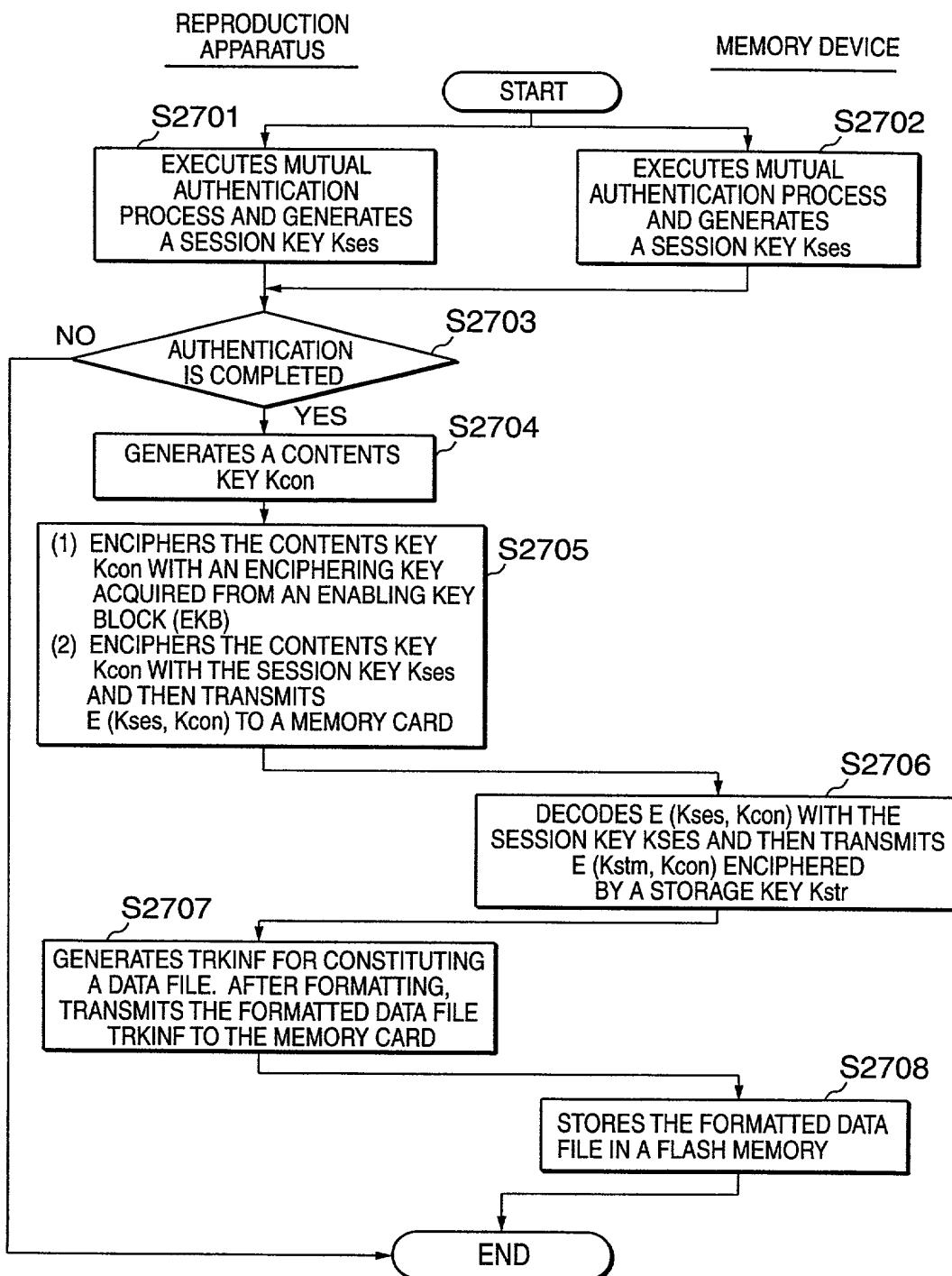
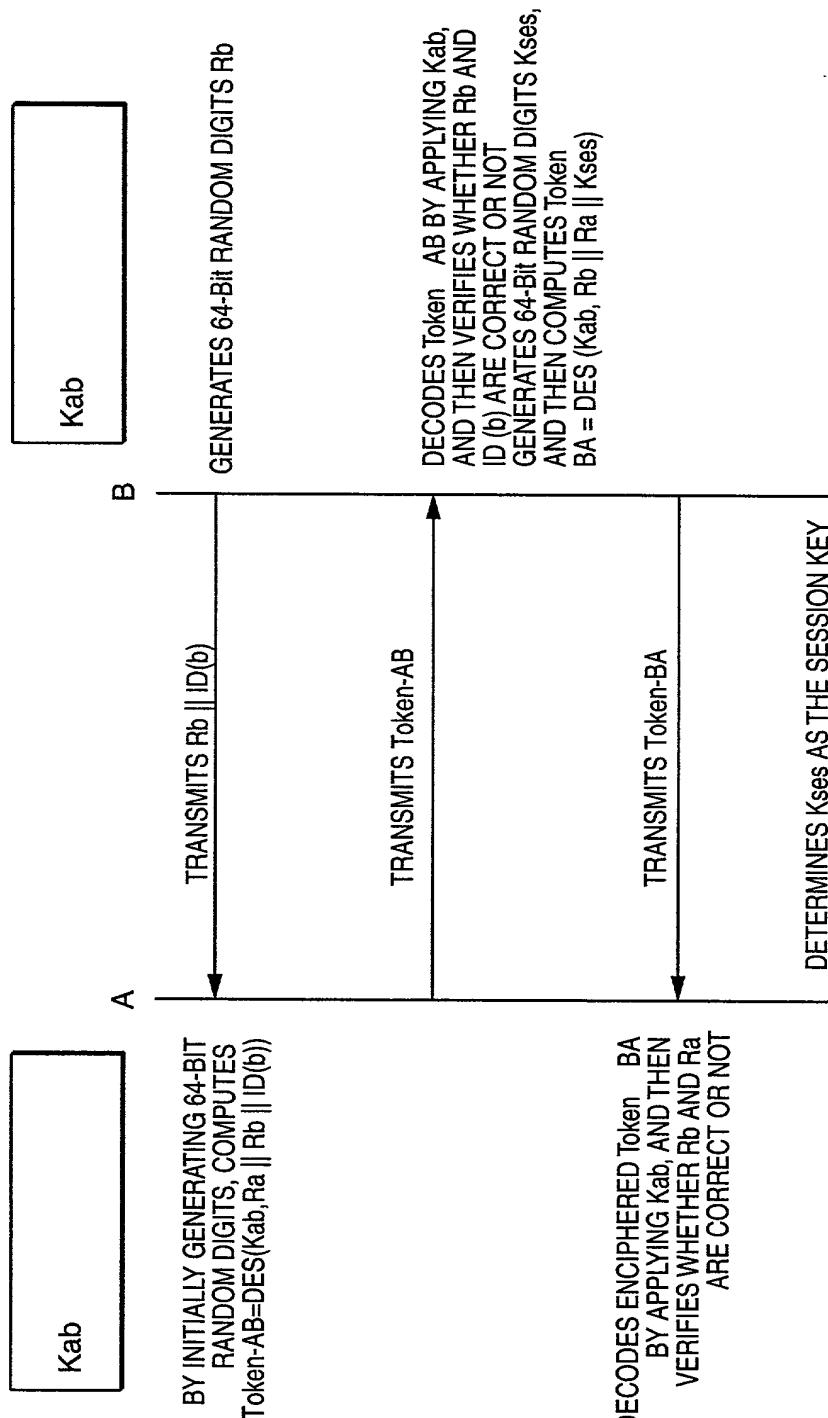


FIG. 29

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MUTUAL AUTHENTICATION FORMAT AND KEY-COMMUNICATING FORMAT VIA UTILIZATION
OF THE ISO/IEC9798-2 STANDARD SYMMETRICAL KEY ENCIPHERING ART

FIG. 30

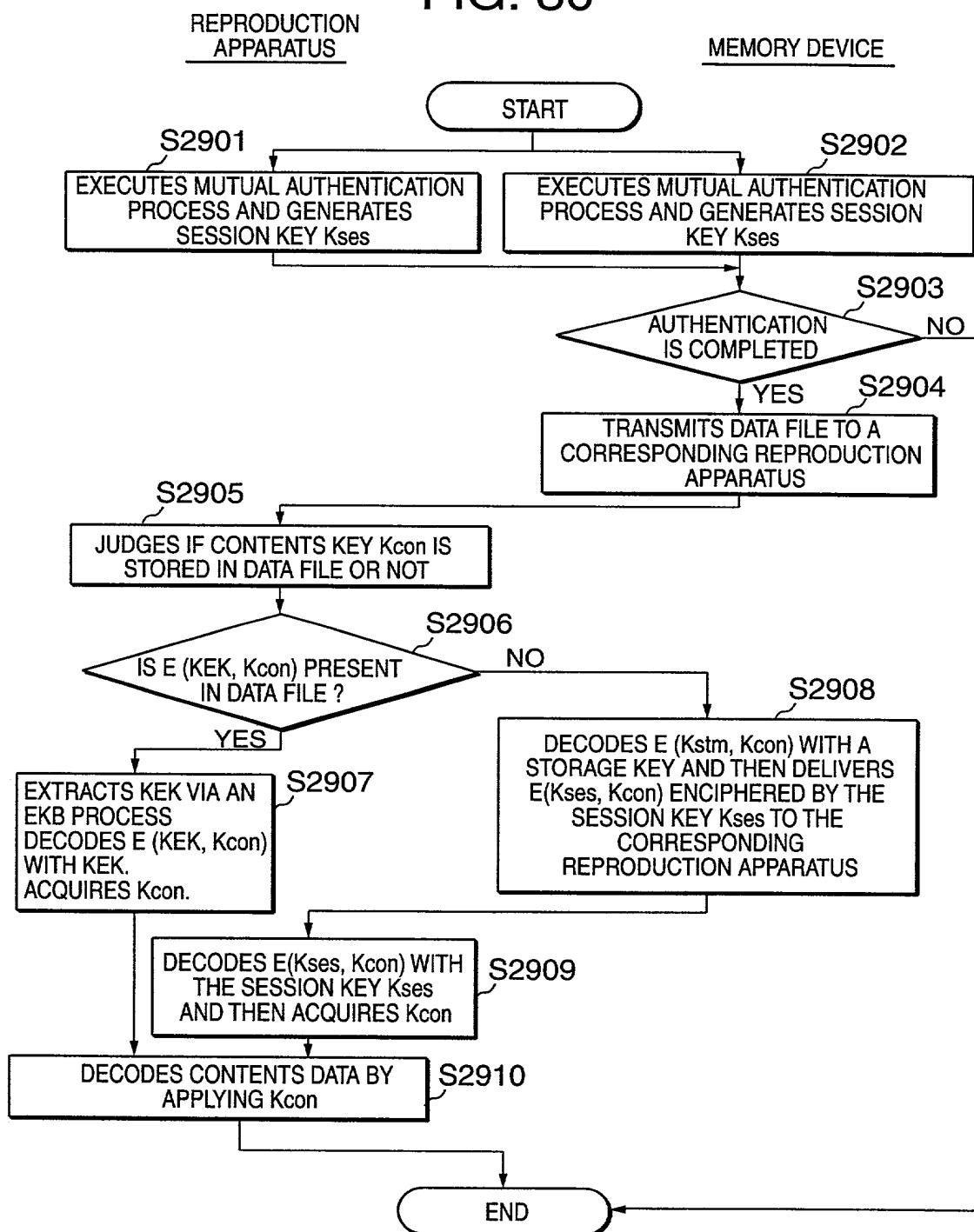


FIG. 31

FIG. 32

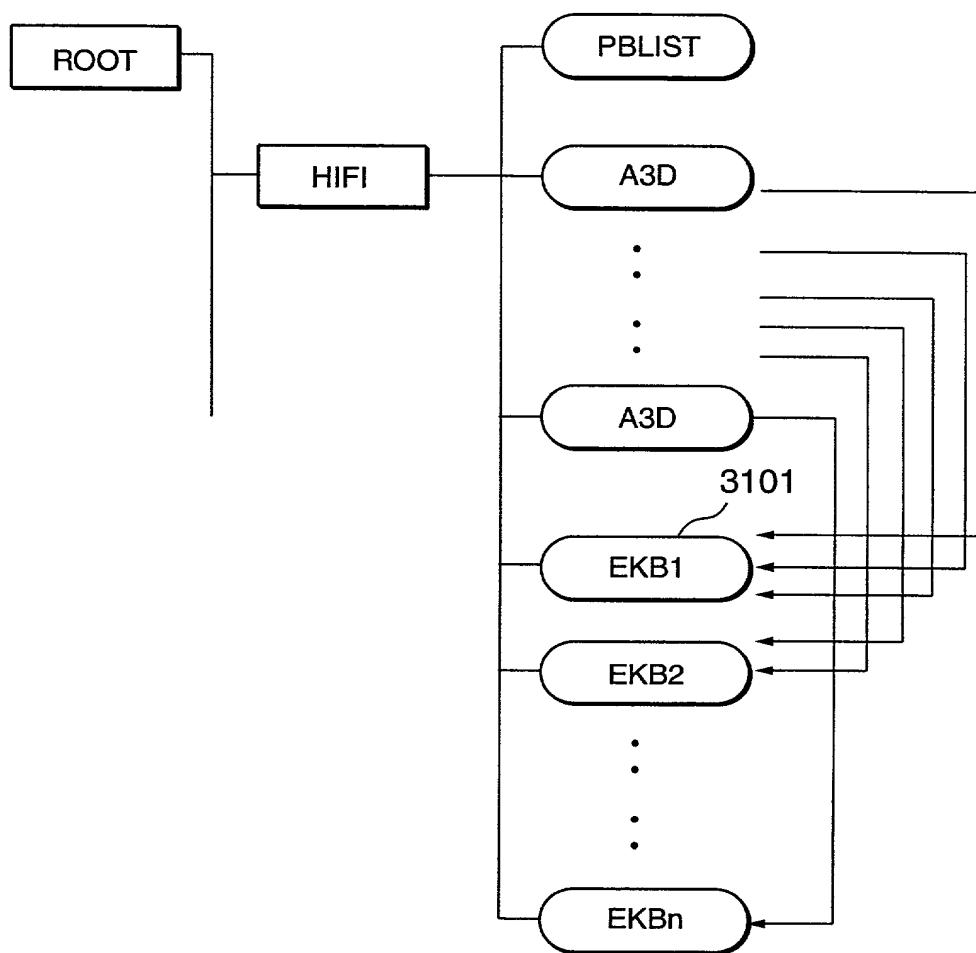


FIG. 33

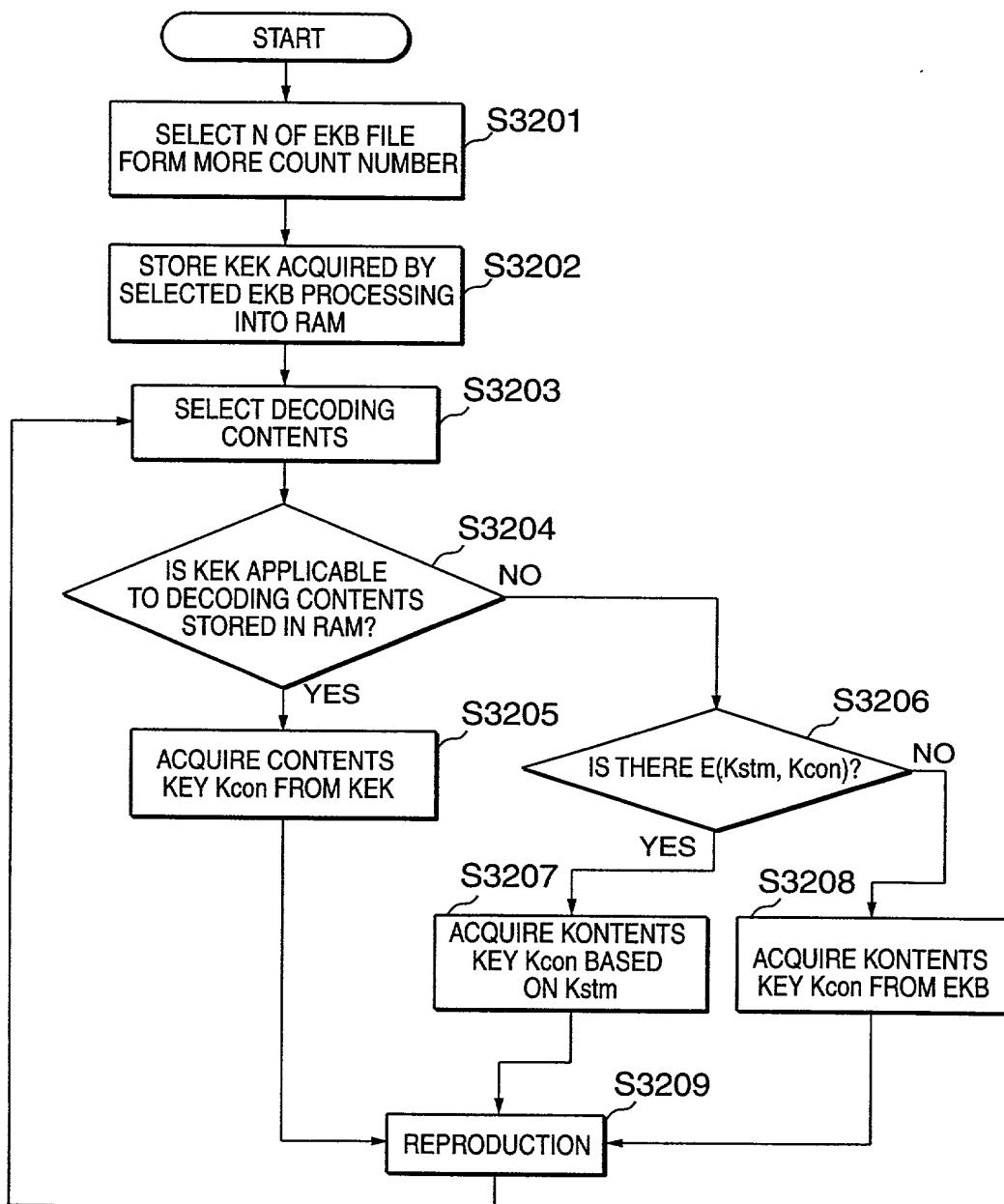


FIG. 34

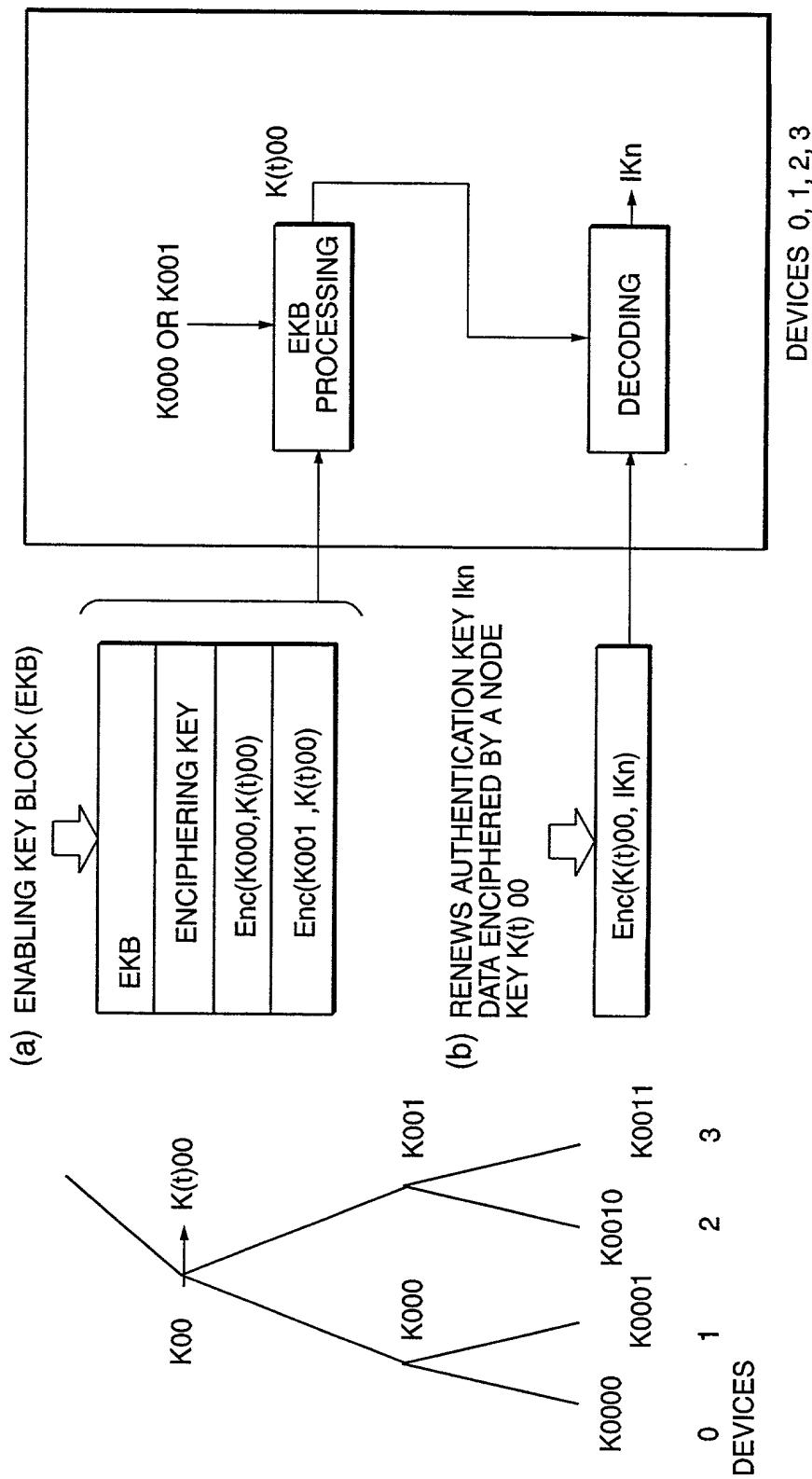


FIG. 35

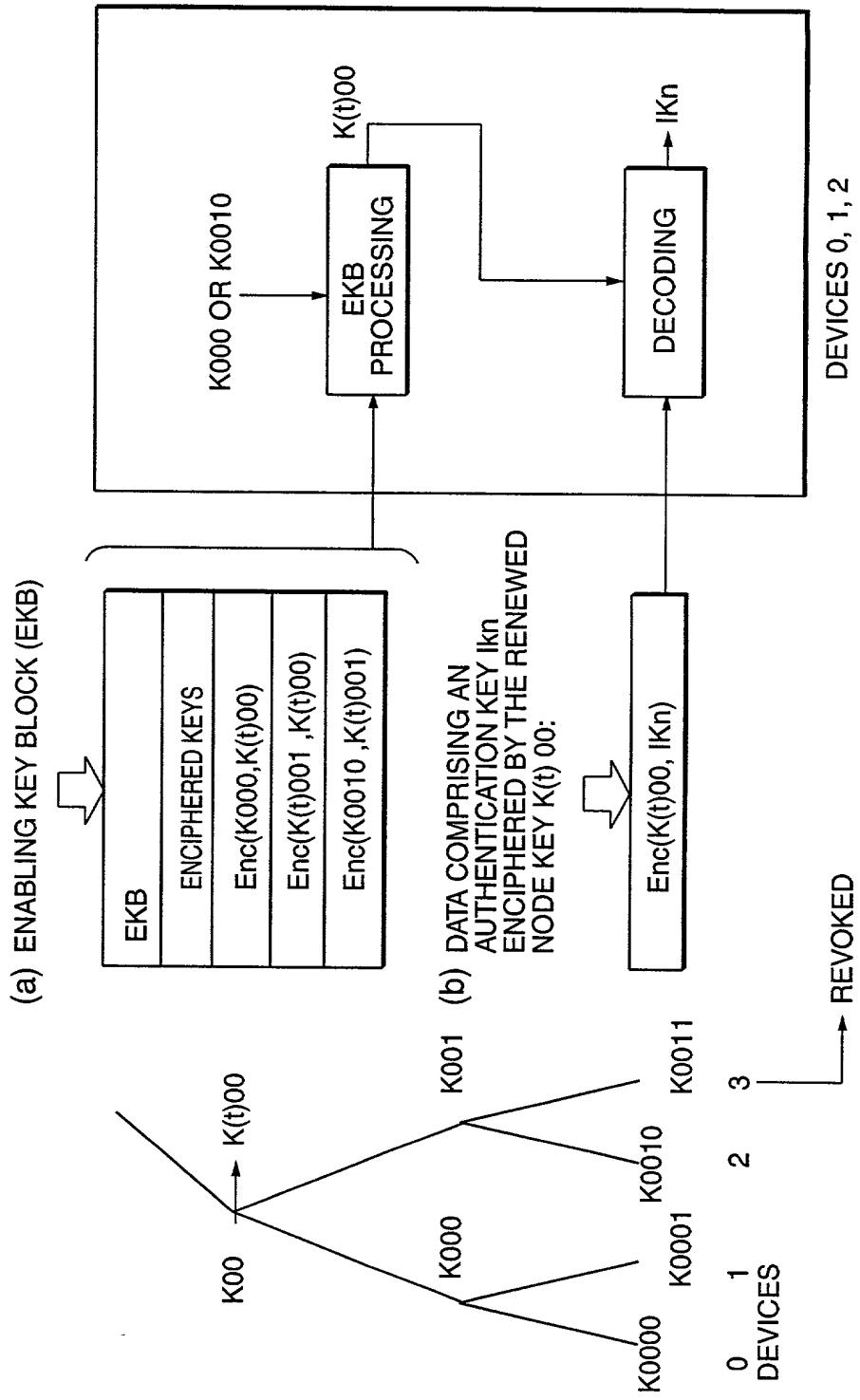


FIG. 36

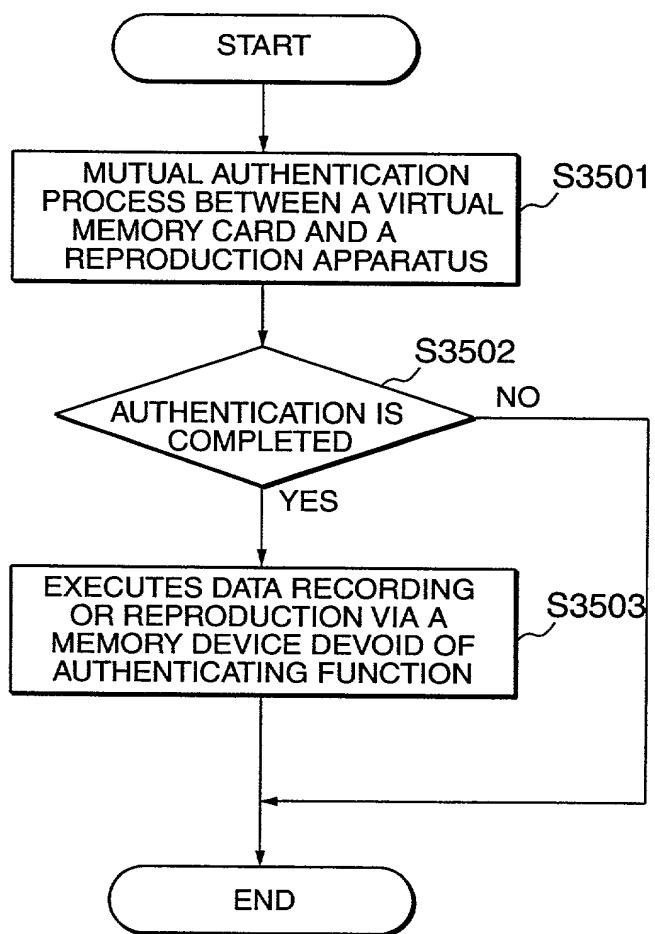
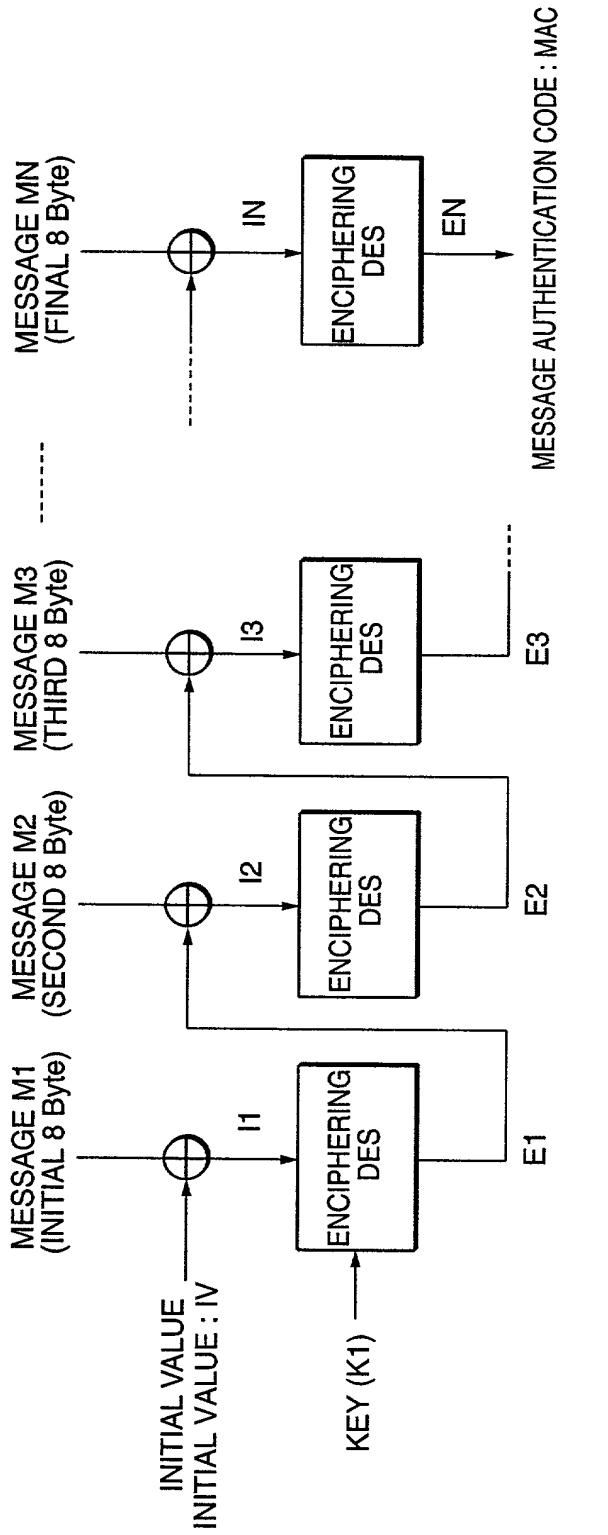


FIG. 37



⊕ EXCLUSIVE OR PROCESS (8 Bytes UNIT)

FIG. 38

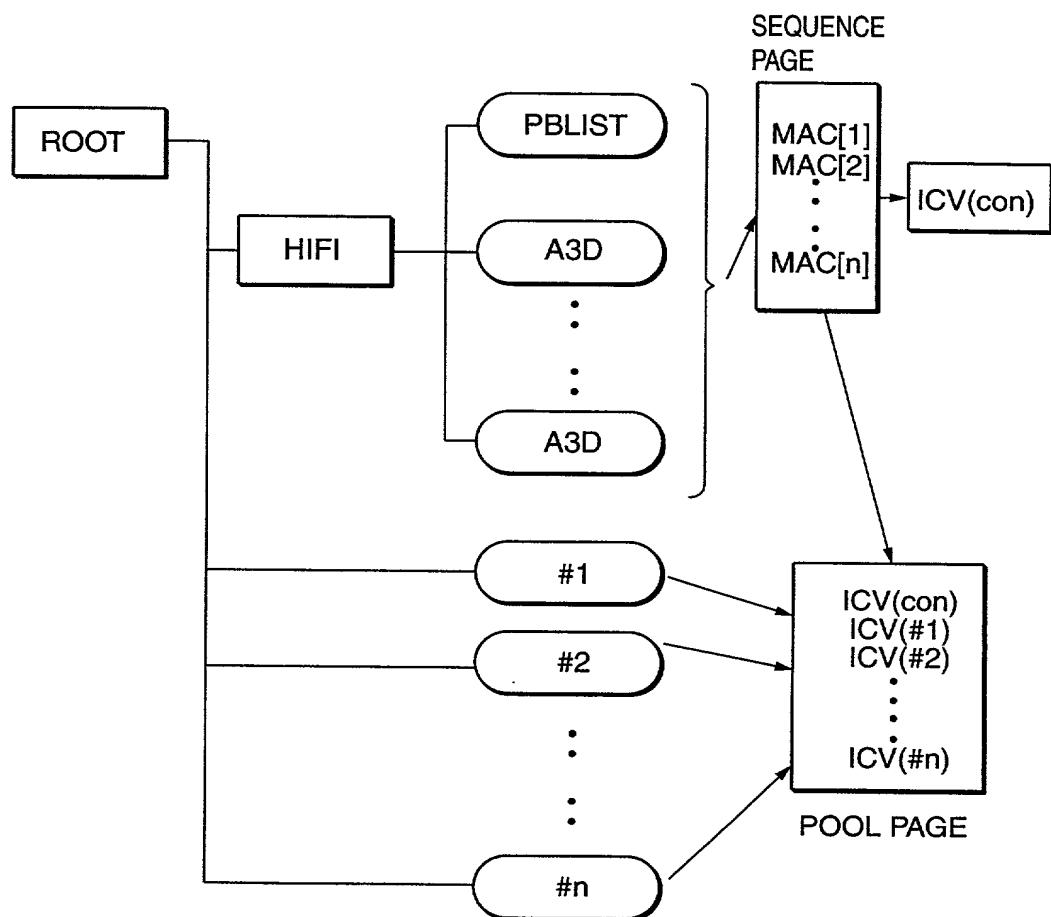


FIG. 39

FIG. 40

POOL PAGE FORMAT																
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0x0000	#0_REVISION		#0_EKB VERSION								#0_E(KEK, Kicv)					
0x0010		#0_E(KEK, Kicv)									ICV0					
0x0020	#1_REVISION		#1_EKB VERSION								#1_E(KEK, Kicv)					
0x0030		#1_E(KEK, Kicv)									ICV1					
												
0x01E0	#15_REVISION		#15_EKB VERSION								#15_E(KEK, Kicv)					
0x01F0		#15_E(KEK, Kicv)									ICV15					

FIG. 41

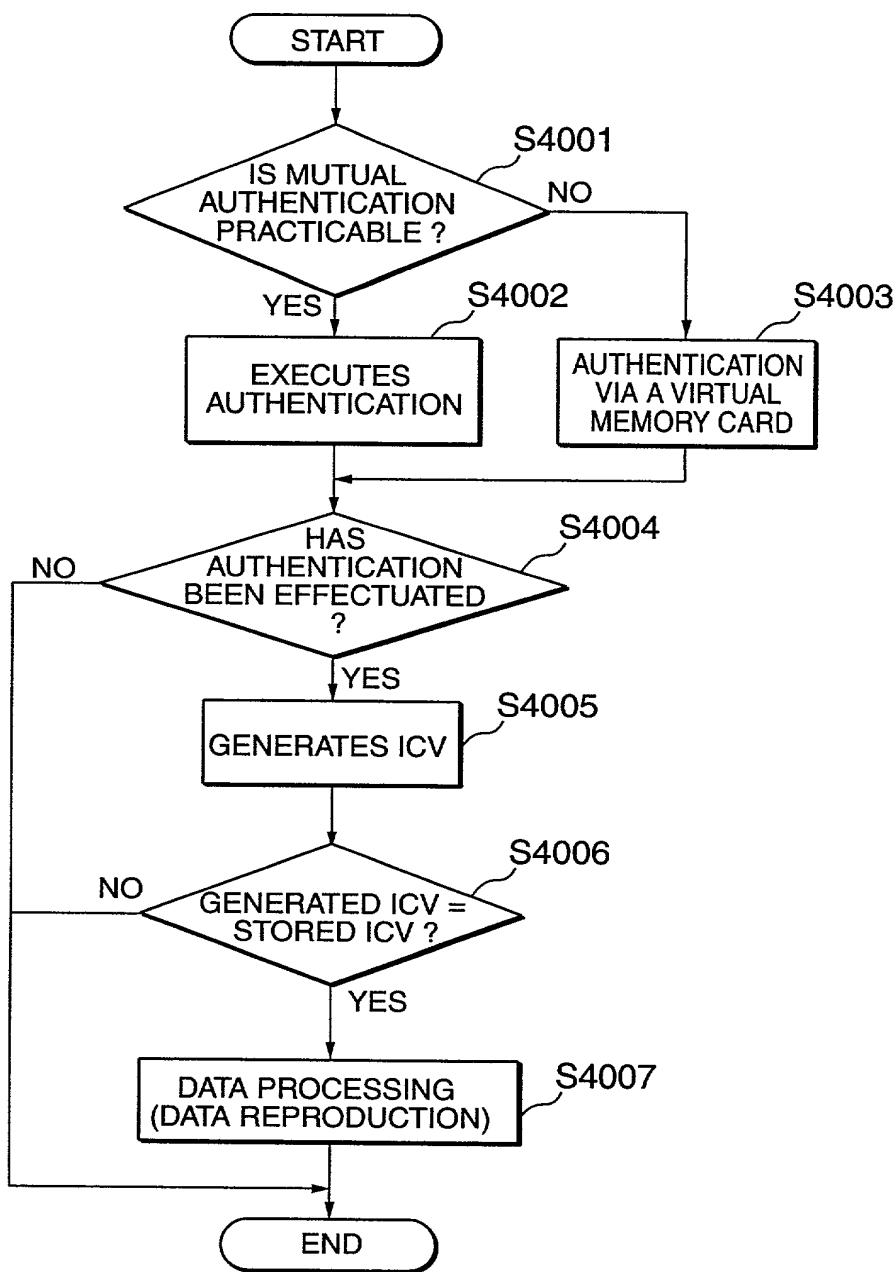


FIG. 42

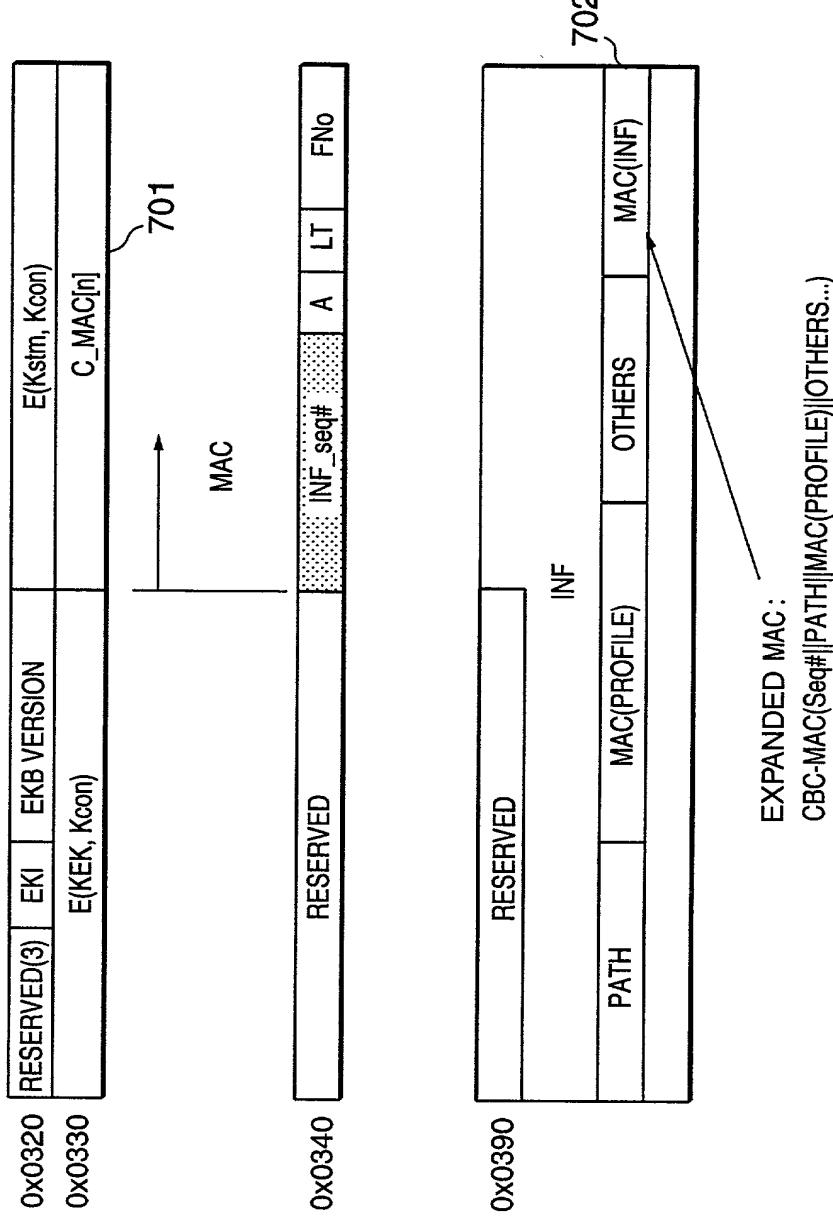


FIG. 43

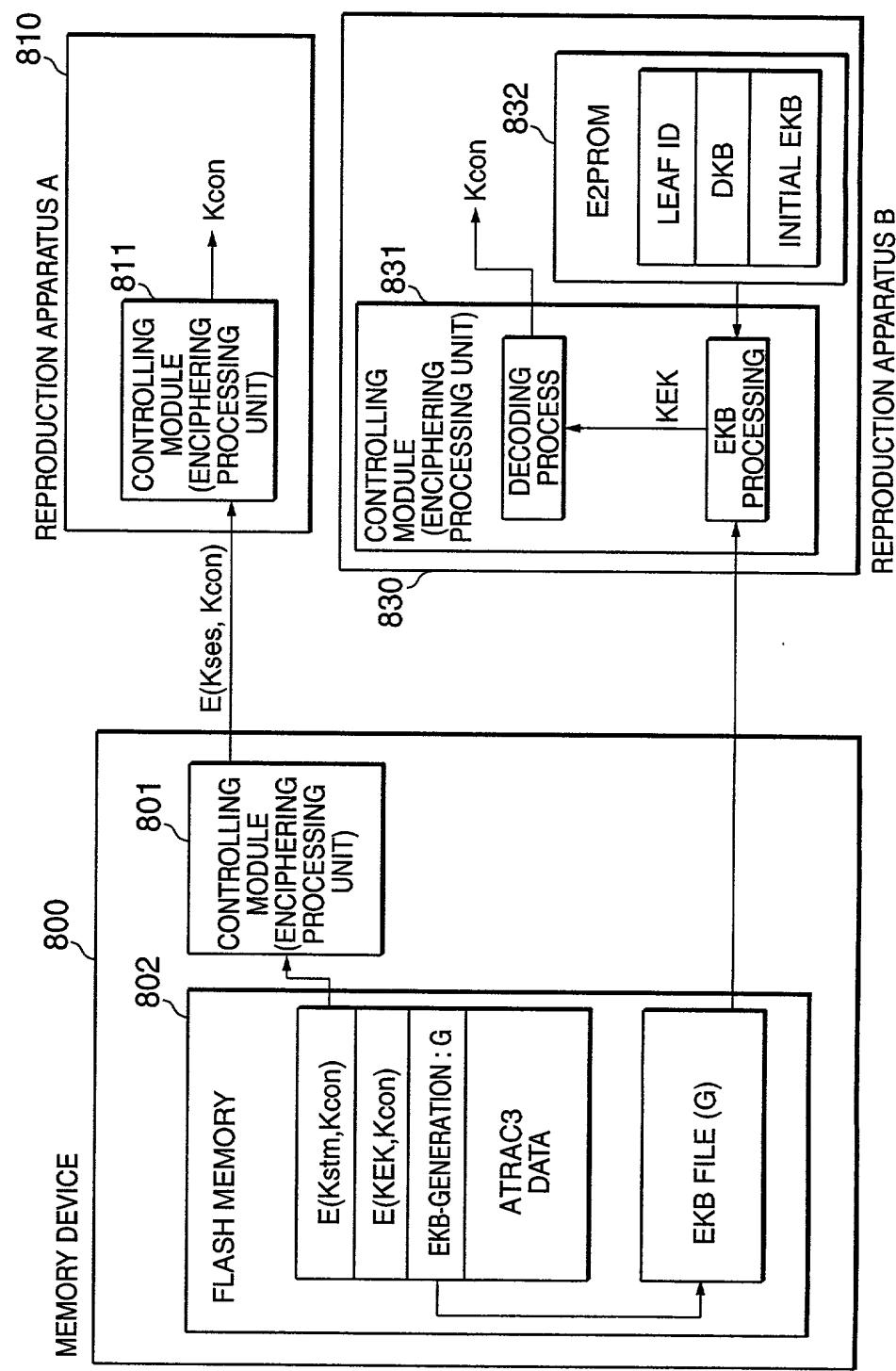


FIG. 44

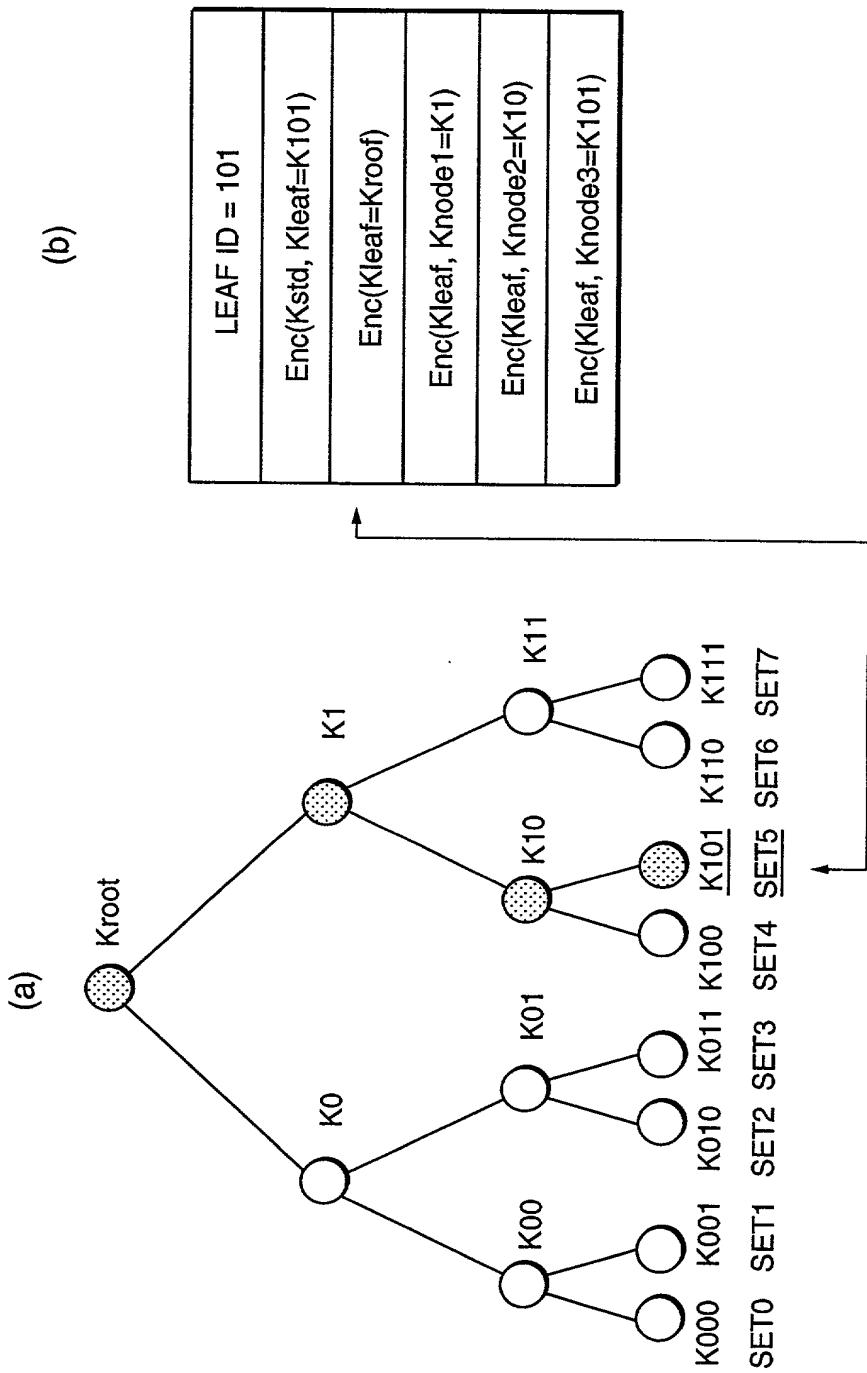


FIG. 45

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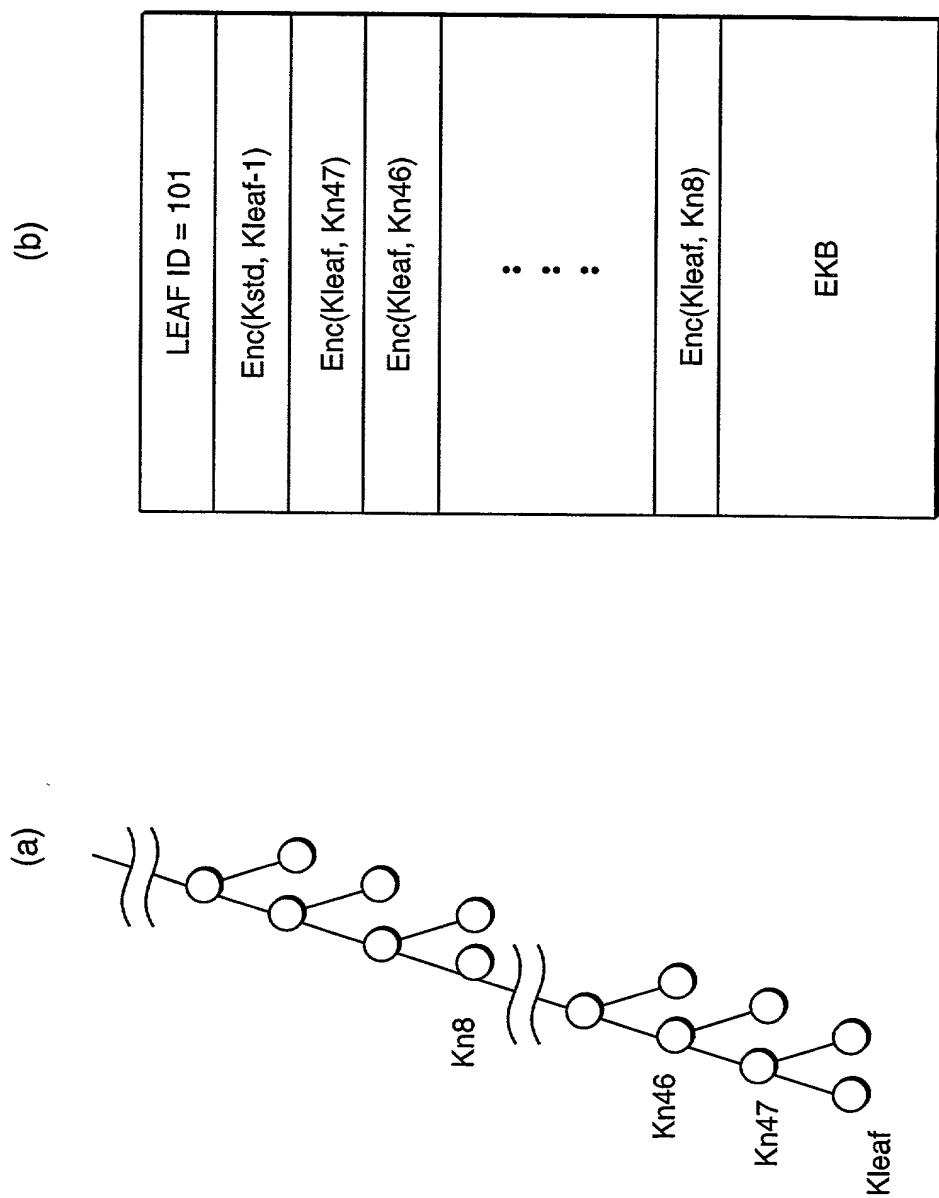


FIG. 46

